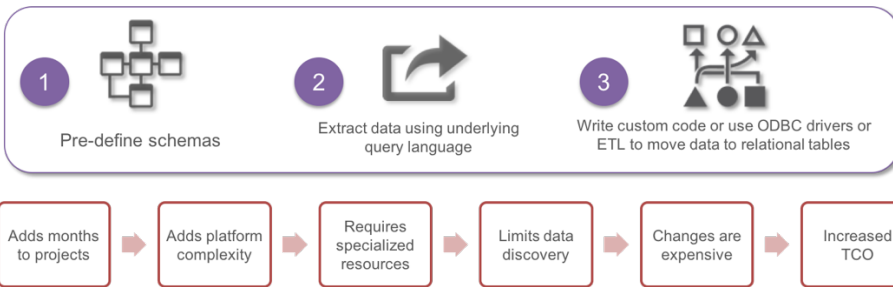# Native Analytics on IoT Data

Deliver Business Insights and Drive Actions. Instantly.

WHY NATIVE MATTERS

Data stacks are changing to enable enterprises to optimally store and query large amounts of multi-structured IoT data. The digital transformation race is on to build innovative IoT applications that promise to transform your business, your customer's business, and your industry but your competitive advantage is increasingly at risk because your analytics platform cannot natively understand IoT data.

IoT Analytics is Different Than Traditional Analytics Because the Data is Different

Characteristics of IoT Data include is high velocity and high volume semi-structured data from sensor reads, machine logs and human-generated data.

Most traditional analytics platforms are architected to only understand well-structured data. As a result, your modern IoT data must be moved, transformed and stored back in a relational structure, either through custom coding or ETL, for these platforms to work. Defining schemas, building ETL processes and operationalizing it adds weeks/months to your projects, unnecessary architectural complexity, and cost.

Knowi is different. Knowi is part of a new generation of analytics platforms purpose-built for modern data stacks that include structured, unstructured and multi-structured data. Knowi instantly connects to your IoT data stored in NoSQL databases, like Cassandra, Elasticsearch, InfluxDB, etc. or through REST-APIs or CSV and JSON files. With Knowi, you instantly discover data, add business context by joining it with relational data, and build visualization literally in minutes.

SUMMARY

Knowi is a leading provider analytics on modern data, including native integration to most of the popular NoSQL data sources for instant data reporting, visualization, and analytics.

KEY FEATURES

- ❖ Native integration to NoSQL stores
- ❖ Natural Language queries
- ❖ Drag & drop query generation
- ❖ Merge data with other sources
- ❖ Natural language processing
- ❖ Over 30 visualizations
- ❖ Sharable and embeddable dashboards
- ❖ Integrated machine learning
- ❖ OEM Options

BENEFITS

- ❖ Instantly visualizes your data
- ❖ Simplifies analytics architecture by eliminating need for ODBC Connectors, ETL, etc.
- ❖ Provides the business with a unified view of their enterprise data
- ❖ Business users ask questions in plain English and get visual answers
- ❖ Automates data-driven actions

For more information, go to our website:

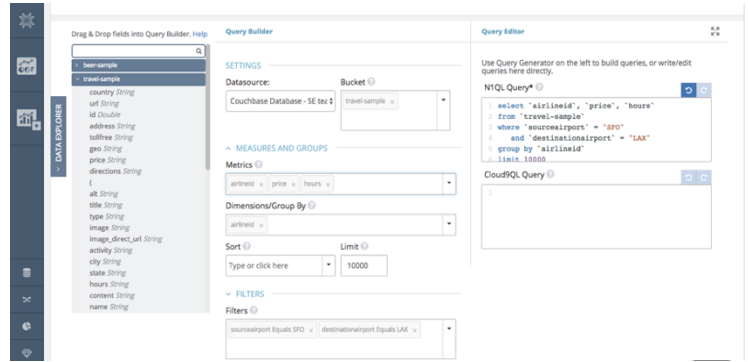https://knowi.com/solution/iot-analytics

INTERNET OF THINGS + KNOWI

Knowi is a unified business analytics platform that streamlines delivery of embeddable analytics on IoT data enabling you to uncover new insights and unlock business value from the data collected from IoT sensors.

Native NoSQL Integration, Query Generation and Multi-datasource Joins

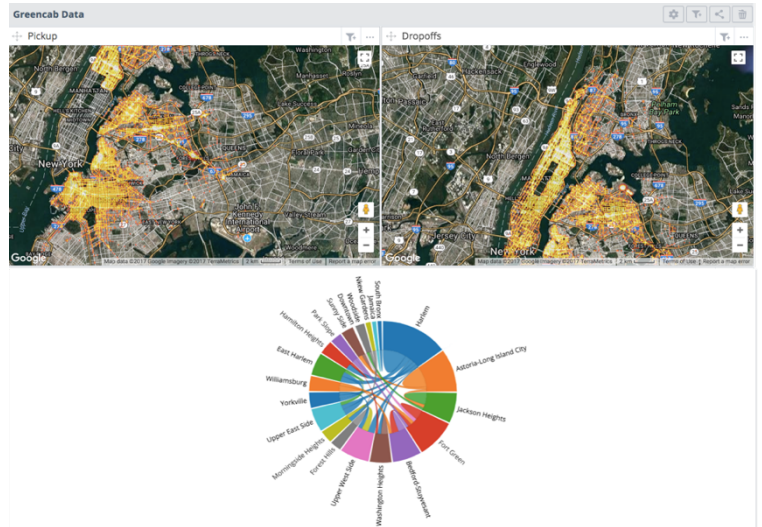Knowi integrates natively, enabling users to:

- Instantly discover data
- Automatically generate queries
- Join data across NoSQL, SQL, file-based, or REST-API sources.

With Knowi, you visualize and blend your unstructured and structured data in minutes. Forget about learning proprietary query languages like MongoDB QL, CQL, or JSON, Knowi auto-generates queries through our drag & drop interface.

Natural Language BI

Make it easy for business teams to use IoT analytics without having to learn a new BI tool. With natural language BI, business users simply type their questions in plain English and instantly get answers they can visualize and share. They can customize the visualizations and create personal dashboards in minutes. With our NLP API, you can enable natural language BI capabilities with applications your business user are already using.

Embed Dashboards in Data Applications

Data application developers can use Knowi to embed analytics directly into their IoT data applications using:

- Simple URL based embedding.
- Secure URL embed with encrypted request payload
- Single Sign-on API that enables token exchange

Integrate Machine Learning for Advanced Analytics

Leverage your IoT data for predictive and prescriptive analytics within the Knowi platform. Use Knowi's built-in open source algorithms, train and integrate models into your IoT analytics workflows and then configure trigger actions based on the results. Knowi quickly enables you to take your IoT data analytics to the next level without any additional investment.

knowi