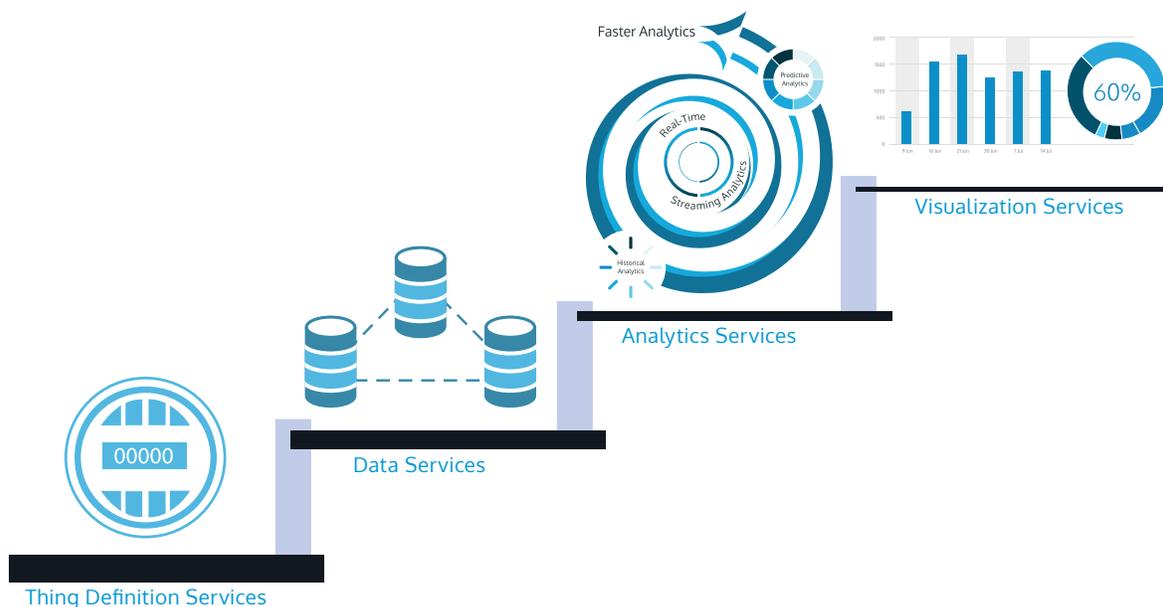




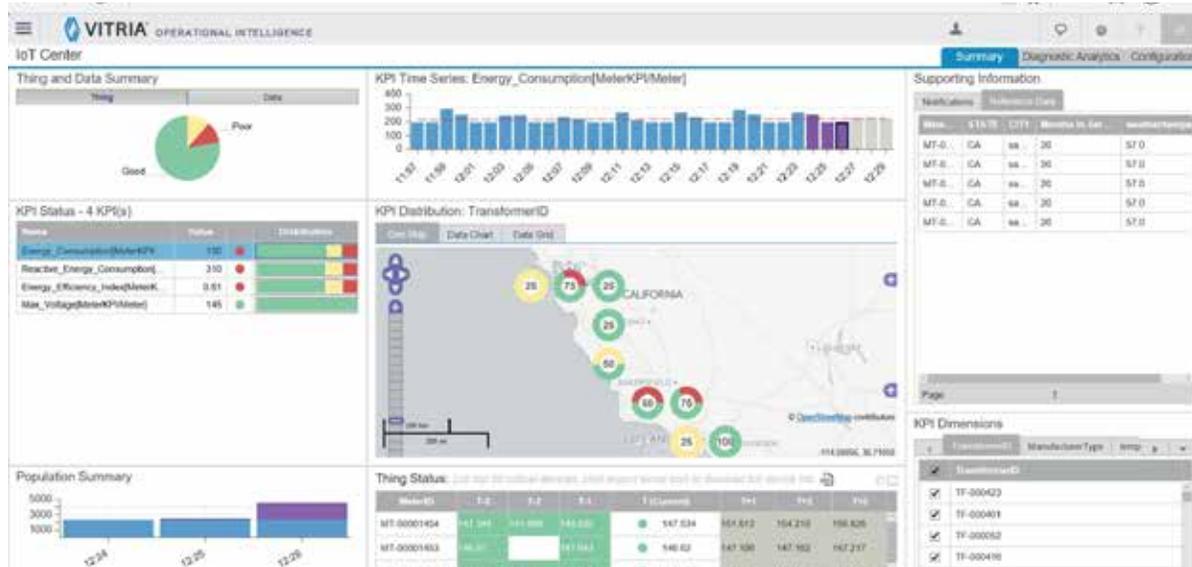
IoT Analytics Platform-as-a-Service (PaaS)

Vitria's IoT Analytics Platform-as-a-Service (PaaS) provides a fast path to insights and actions that empower customers to transform their business operations with Internet of Things (IoT) applications. The platform enables business analysts, operations managers, and other business-centric users to get up and running and get results in minutes, not months. It includes a unified analytics engine that was designed for the demanding business and technical requirements of the IoT era. Customers can quickly deploy applications using the self-service tools and model-driven development environment. The simple four step workflow accelerates time to value for all your IoT Analytics projects.

Results in Minutes Not Months

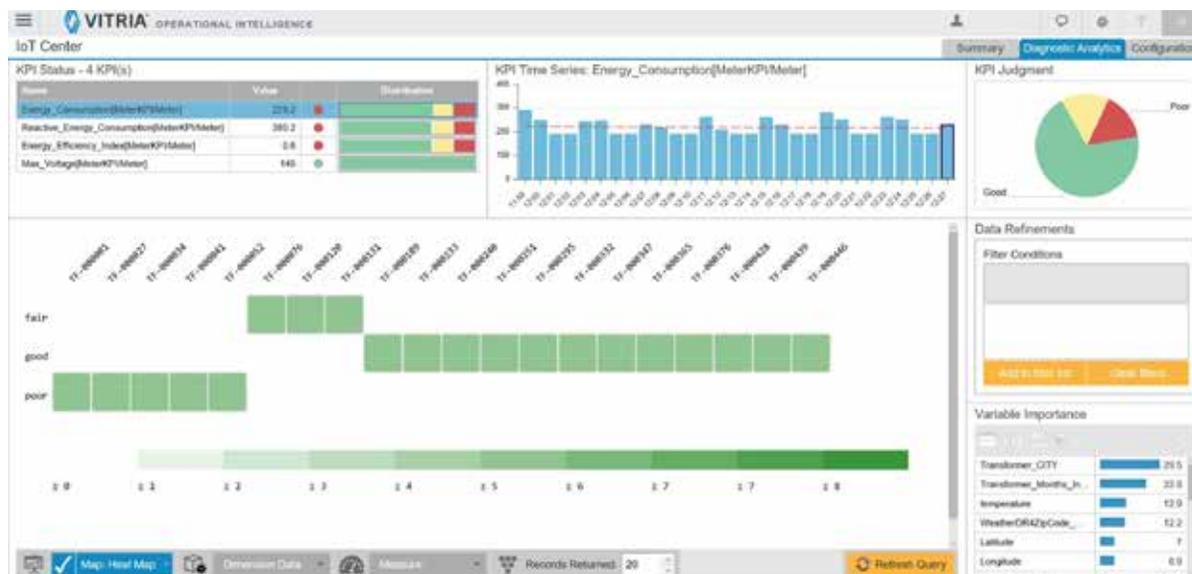


IoT Dashboard



Vitria's Analytics PaaS for IoT provides a powerful set of visualization and dashboard style capabilities that enable operations executives and managers to make rapid business decisions that maximize business value.

Diagnostic Analytics



Vitria's Analytics PaaS for IoT provides a series of powerful analytics features that enable business analysts to diagnose and discover key patterns and insights in their data and applications.

“Thing” Definition Service

FEATURES	DESCRIPTION
Scale up to 100K	“Thing” network scale up to 100K
Multiple Types of Things	“Thing” network with single “Type” of Things “Thing” network with Multiple Types of Things
“Thing” Data Upload	“Thing” base data upload “Thing” base data sample data as source “Thing” base data format CSV, JSON, and XML
“Thing” Data Update	“Thing” base data update (complete refresh)
“Thing” Modeling	“Thing” modeling with primary key identification

Data Service

FEATURES	DESCRIPTION
Support Data Format	Reference data and telemetric data support Data format CSV, JSON, and XML for reference data
Streaming Ingestion	Support real time data ingestion via REST
Batch Ingestion	Support batch data ingestion via SFTP
Data Quality Report	Data freshness report on data sources (“Thing” data, reference data, & telemetric data)
Population Summary	“Thing” network scale report on the number of “Things” analyzed in the most recent analytics windows
Plugable Data Service	Optional “plugable data prep” service integration into data resources as “thing” data, reference data, and/or telemetric data
Weather Data Support	Weather Data (current readings) as reference data available to any user
Data Usage Report	Backend data resource usage status report (Under Data Resource)

Analytics Service

FEATURES	DESCRIPTION
KI Definition	Modeling of basic KI measures and composite KIs Concept of KPI set in which multiple KPIs share the same analytics intervals and dimensions
KI Correlation	Automatically analytics aggregation based on user defined dimensions
KI Computation	Computational dimension data sources from any reference data (single stream) Continuous, real-time in-memory KI computation and trending regression Device level, user defined population level, and system defined network level roll-ups
KI Judgment	User defined KI judgment policies on device level, population level, and network level

Analytics Service (cont'd)

FEATURES	DESCRIPTION
KI Notification	Flexible KI judgment based notifications enabled at network, population, and device level Subscription with duplicate suppression & delivery options
KI History	Device, population, and network level KI computation results saved in historical data lake Both current and past results accessible for visualization, historical analytics, and machine learning
KI Prediction	Capability of importing and operationalizing user-defined predictive model with access to real-time and historical data (future releases)
Compound KI	Compound KI computation
Trend Line	Time-series EMA trend line support
Free Form Expression	Free form expression builder with basic options
KI Weather Data Support	Weather data as public reference data source for KI computational correlation

Visualization Service

FEATURES	DESCRIPTION
Real-time View	Real-time view provides analytics result dashboard to monitor IoT network
KPI Time Series	Interactive user experience slide and dice KI to identify anomalies
Out of Box Visualization	With pre-defined visualization framework, users can enable preferred scorecard and dashboard with available data in the system
Data Quality Report	Data quality report on data freshness and "Thing" population
Data Usage Report	Data storage and usage report (under Data Resource)
Custom Dashboard	Support "Pluggable visualization" for custom dashboard
Unified View	Analytics insight includes KIs computation results from recent past, current, and near future windows; as well as the correlation from contextual data provided by users
Multi-layer Analytics Insight	In real-time view, KI dashboards provide network, population, and device level computation results by clicking interested time slot, population group, and KI status
Diagnostic View	Diagnostics analytics user experience for strong correlation leveraging ML

ABOUT VITRIA

Vitria's advanced analytics solutions empower enterprises and industrial customers to achieve better outcomes faster in their business operations.

The company was founded in 1994 and has a long history of success in streaming analytics, business process management, enterprise application integration, and operational intelligence. Vitria is also a leading player in the rapidly growing IoT (Internet of Things) analytics market. Customers include Fortune 500 companies and enterprises across a wide range of industries, including finance, manufacturing, telecommunications, utilities, retail and more. For more information, visit www.vitria.com.