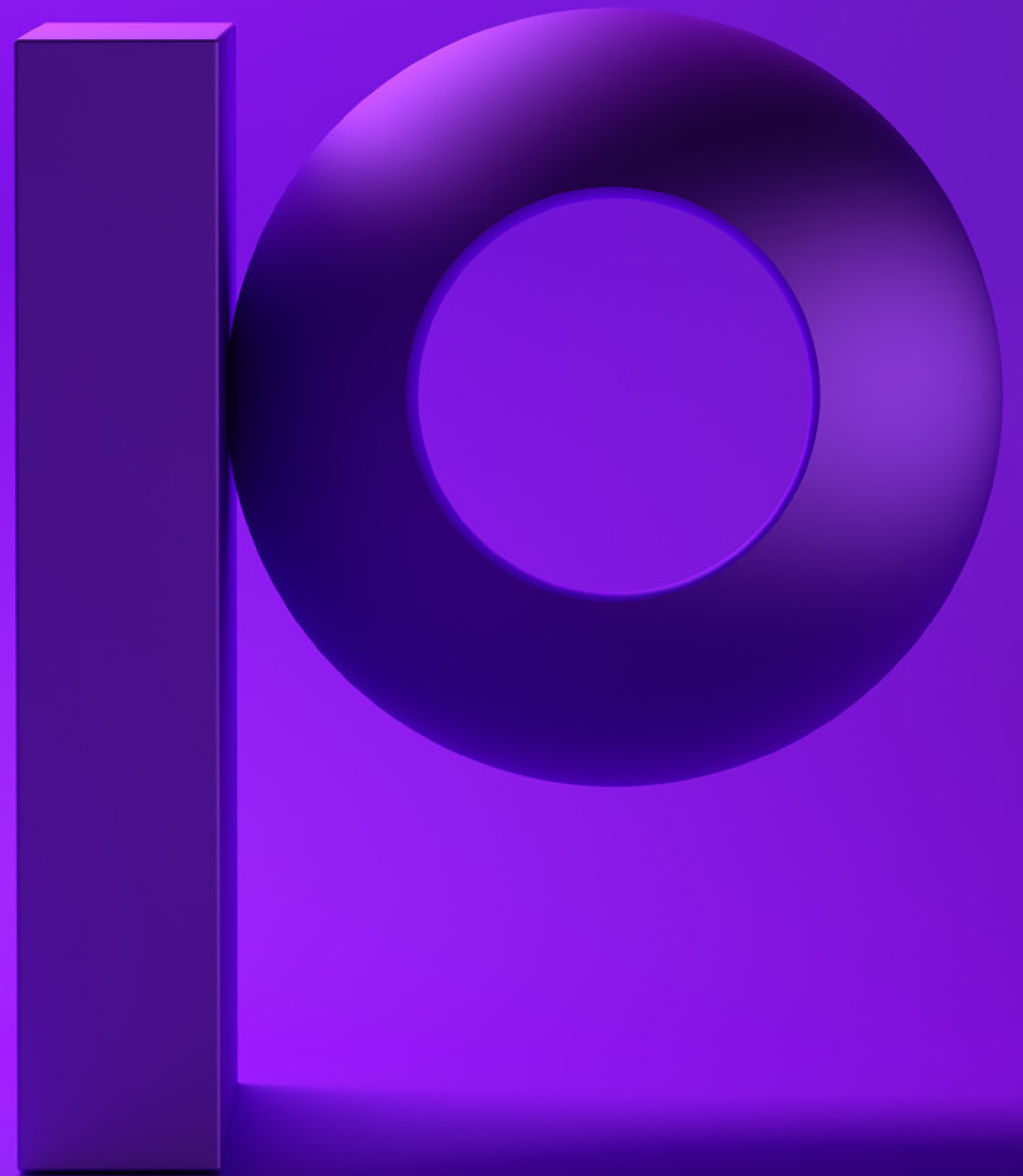


precisely

Easier, faster data enrichment: Location insights for the cloud

How to accelerate geospatial
insights within cloud-native
and big data environments



Cloud-Native invites Big Data opportunities

More information can mean more answers, more value, and more opportunities. It can also mean more unanswered questions.

Due in part to better data-capture processes, the rapid growth of cloud transformation projects features more detailed customer information, interactions, and location-specific information than ever. Mobile apps, geotags, and smart sensors generate millions of new data points every hour, each featuring a location component. Yet, most firms have trouble extracting value from the location data they collect. Studies show that up to 73 percent of this data goes unused in day-to-day analytics and Business Intelligence.

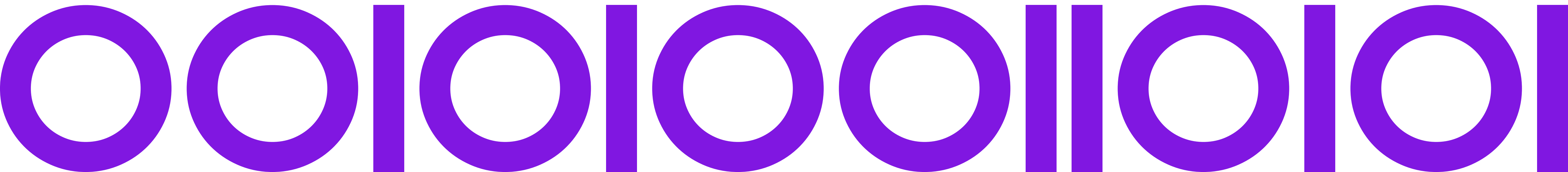
Organizations need to turn those transactions, data points, and locations into a competitive edge. But how? To make sense of the volumes of business data, location provides a consistent and common thread to connect data across an organization. Using location, companies are able to understand and organize data in a way that moves them to contextualized knowledge, automation, and better decision-making at all levels and at scale.

Three essential big data facts:

Organizations are challenged to harness and process the volume and variety of information being generated and the transition to cloud-native explosion shows no signs of slowing down.

Cloud-native tools can aggregate, analyze, and share data quickly and efficiently.

Location-based data and software are helping insurers, retailers, communication services providers, governments, and others improve performance exponentially.



Smarter decisions require more powerful analysis

Information management has become a struggle for companies of all sizes. Most lack the power to extract value from geospatial data with the requisite speed or at the proper scale. In fact, the tools used by some organizations can take days to process the data needed to reach any actionable conclusions.

The rate at which data is being created can be overwhelming, let alone finding the best way to leverage that information for meaningful insights. Some organizations may fear their data is “too big” or “too hard” to control. Others must overcome a change-averse culture. Some have a fundamental skepticism about the speed, security, or business promises of managing trusted data in the cloud.

New solutions are countering the naysayers, changing the dynamic, and creating tremendous opportunities.

Powerhouse SDKs deliver fast results

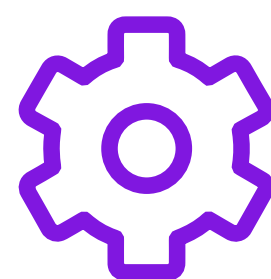
Through access to cloud and big data insights, Software Developer Kits (SDKs) have the power to transform organizations. Today’s advanced solutions run in cloud-native containers and big data environments such as Kubernetes, Docker or Spark. These technologies allow you to analyze huge volumes of disparate data in common cloud platforms like Databricks and Snowflake. Companies can also perform address validation, geocoding, data enrichment, and catchment area analysis in a fraction of the time and cost compared to server solutions.



Go bigger

Massive data should not produce massive headaches. Unlock the value hidden in the massive amounts of data collected about customers, interactions, infrastructure, and products.

Big is just the beginning. New solutions make it easy to process datasets with a billion records an hour using ephemeral processing. With such rich business insights, it's never been easier to “see beyond the data.”



Process
massive datasets



Save
processing time

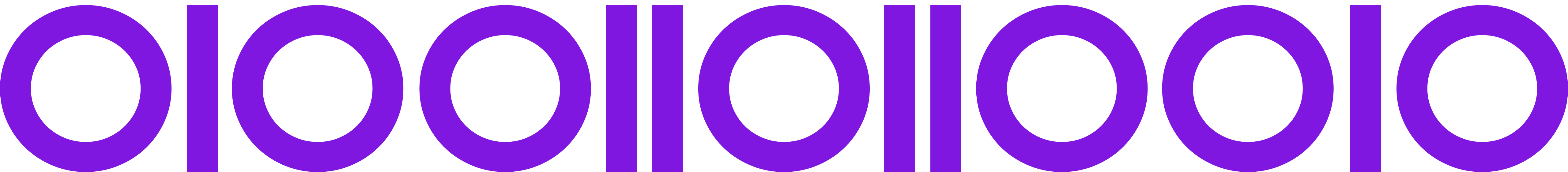


Unlock
hidden value

What took months, now takes minutes

A communication services provider in the US struggled with the public perception that their network was not as reliable as their competitors'. To change this perception, they wanted to build a network coverage map of their own subscribers— one that detailed service within very small geographies across the entire US.

The datasets were dauntingly immense. Yet, using a geospatial processing solution running natively in the cloud, they organized an astounding 19 billion call records (aggregated against 950 million hexagons) in just 31 minutes.





Go everywhere

When you run cloud-native products in containers, big data, or Spark, you can analyze data with speed and precision. But for this analysis to have value, you need ways to integrate these insights into your day-to-day workflows and business processes.

Our technical alliances with Databricks, Microsoft Azure, Google Cloud Platform, Amazon Web Services, and Cloudera ensure you can support on-premises and cloud-based SaaS and IaaS delivery.

Adding geospatial data lets you link together a wide variety of data, then aggregate and analyze it to drive business insight. With powerful SDKs that work with your preferred distribution technologies, you can be confident your spatial data solution is going to run reliably on-premises or in the cloud. Supported distribution gives you added peace of mind that assistance is available should challenges arise.

Go beyond

Harnessing cloud-native products with the right software can help you make discoveries that can't be found with your existing solutions. The proper tools can enhance insight into people, places, and things to uncover hidden connections and convert them into growth opportunities.

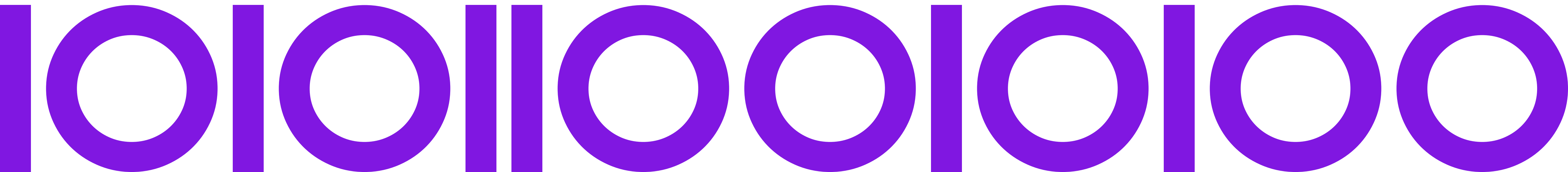
A modular approach lets you expand solutions to meet your growing needs. Add data quality, point-in-polygon or isochrone calculations all within cloud-native processes. With this flexibility, you're not restricted to a simple one-off solution for geocoding, data enrichment, or catchment assignment.

Now, organizations can finally achieve the business outcomes and ROIs they expected from their cloud transformation projects.

Power up performance

Generate lightning-fast insights within your big data framework to:

- Optimize network assets.
- Create a clearer view of risk.
- Offer more competitive pricing.
- Target high-value customers.
- Plan the most efficient delivery routes.
- Select more profitable retail locations.
- Visualize relationships within data.



Verify

Avoid costly problematic addresses – especially across multiple countries

Gain the accuracy you need

Verify addresses in real time across more than 250 countries and territories. Automatically recognize data by country, even confirming primary house numbers and apartment numbers. By managing multi-national characters and applying casing to correctly format and validate your data, address verification makes it easier to reach customers with effective, personalized communications.

Address Autocomplete

Capture the right address in real time with smart autocomplete features, returning a suggested list of complete addresses based on partial address keystrokes – useful for any local search, checkout, shipping, or billing experience on your website. Achieve confidence in your decisions with address suggestions relevant to your business needs.



Locate

Give your cloud-native micro-services the location advantage with the most complete set of proven address management, geocoding, and location analytics, without sacrificing speed or performance. The use of a unique ID makes it possible to relate multiple datasets to reveal complex relationships. Together, these capabilities help to organize, manage, analyze, and visualize business data in ways that yield actionable insights.

Global Geo addressing

Assign precise latitude and longitude coordinates to physical addresses. Access forward and reverse geocoding for 250 countries and territories, with over 150 at street-level or better precision.

Location Intelligence

Build context by querying or aggregating spatial data to understand distance, geometry, density, and more. Use the results to operationalize business rules or visualize the results on a map.

Enterprise Routing

Calculate distances, boundaries, and travel times and overlay with geodemographic data to inform site selection models.

Data Enrichment

Link any dataset using a unique and persistent key based on a property location, putting all of the data you need at your fingertips.

Enrich

Enrichment brings meaning to location information through reliable address, property, and demographics datasets. Through enriching data, businesses begin to understand how people and places interact with greater certainty. Precisely architects a leading range of products, which, backed up by our team of data experts, enables your enterprise to make better decisions.



Addresses & Property

Verified and validated address and property data for map display and analytics



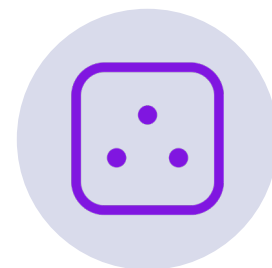
Boundaries

Administrative, community, and industry-specific boundaries for data enrichment and territory analysis



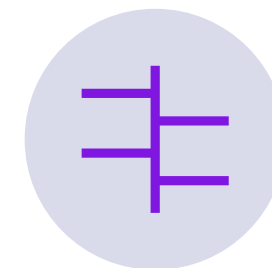
Demographics

Demographic and consumer context data for better understanding people and behavior



Points of Interest

Detailed business, leisure, and geographic features for location and competitive intelligence



Streets

Robust street-level data for mapping, analysis, routing, and geocoding



Risk

Natural hazard boundaries related to flood, fire, earthquakes, and weather

Cloud-native advantages for any industry

Business of all types are taking advantage of location-based cloud-native containers. Industries from retailers and telecoms to insurers and financial companies are finding the answers they need faster than ever.

Accelerate workflows. Current processes are bogging down and sometimes overloading IT systems and infrastructure. By off-loading to a new, faster big-data workflow, companies can recognize significant performance improvements.

Organize and join multiple data types. To improve understanding, many organizations collect data in multiple formats across multiple systems and merge data from similar use cases. Precisely enables companies to join spatial, structured, and un-structured data into common formats and common systems.

Capitalize on moving sensor insights. The Internet of Things (IoT) is growing exponentially, helping companies better understand the performance of their equipment, personnel, and clients. Our solutions enable companies to apply location understanding to massive amounts of sensor-generated data for improved insight.



P&C Insurance

Single view of risk

Combine massive amounts of data at extraordinary speeds to achieve a consolidated single view of potential insured risk associated with any given property.

Usage-based insurance (UBI)

Collect massive amounts of telematics data related to drivers' driving patterns (speed, time of the day, day of the week, braking patterns, locations, etc.) for more accurate risk prediction and premium calculation.

Real-time catastrophic event notification

Understand the impact of a catastrophic event in real-time. Whether flood, earthquake, or wildfire, you can better allocate adjusters, provide fast support to policyholders, and understand the potential loss.

Risk aggregation

Establish a portfolio-wide (multi-policy) view of exposure and risk to appropriately balance portfolios and price.

Wireless Telecommunications

Network optimization

Associate predicted network performance with collected network interactions from billions of subscriber connections. Support network capacity planning and consistent service assurance as well as better targeting and care of high-value customers.

Data monetization

Organize and anonymize subscribers' movement data to create new business models and digital services. Build profitable partnerships in a complex value chain and deliver on customer satisfaction.

Subscriber lifecycle interaction

Gain a better understanding of individual subscriber movement and network use to quantify customer lifetime value, orchestrate consistent, contextual, and meaningful omni-channel communications. Predict and prevent churn and enable real-time next-best action.

Subscriber acquisition

Create subscribers' crowdsourced coverage maps to differentiate network performance for new subscriber acquisition.



Financial Services

Mortgage valuation

A deep well of individual property attributes enables mortgage originators to more accurately assess the true value of any property.

Cross-sell/up-sell opportunities

A centralized single view of customers can reveal and share client account details, informing cross-sell and up-sell opportunities.

Branch location analysis

Combine location intelligence and demographics to visualize and analyze the true sales potential of various branch locations.

Branch-performance evaluation

Quickly compare branch-to-branch performance and set realistic goals that guide delivery of the right services at the right locations.

Five reasons to modernize with Precisely cloud-native SDKs:

01

They're easy

- Program to run processes native in Kubernetes, Docker, and Spark.

02

They're powerful

- Take advantage of more data.
- Answer questions that were too big before.

03

They're incredibly fast

- Process enormous amounts of data in a fraction of the time.

04

They're flexible

- Avoid large capital outlays for cloud-based solutions.
- Run on-premises or in the cloud.

05

They're scalable

- Expand with a modular system that grows with your needs.



precisely

**Better data.
Better decisions.**

With Precisely cloud-native products you can cleanse, consolidate, geocode, enrich, and visualize massive data volumes in a fraction of the time, all within a single framework. Join the ranks of leading companies that put their trust in Precisely.

Precisely is the global leader in data integrity, providing accuracy and consistency in data for 12,000 customers — including 99 of the Fortune 100 — in more than 100 countries.

Contact Precisely



About Precisely

Precisely is the global leader in data integrity, providing accuracy and consistency in data for 12,000 customers — including 99 of the Fortune 100 — in more than 100 countries. Precisely's data integration, data quality, data governance, location intelligence, and data enrichment products power better business decisions to create better outcomes. Learn more at www.precisely.com.

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