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Data Management Solutions Communiqué

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Spotlight

S&P Global Market Intelligence Wins a 2021 Data Management Insight Award!

We are honored to have received the [2021 Data Management Insight Award](#) for **Best Data Provider to the Sell-Side**. The Data Management Insight Awards are uniquely designed to recognize both established solution providers and innovative newcomers and seek to highlight data management solutions that have successfully improved firms' abilities to manage, control, analyze, and gain insight from ever-growing volumes of data across global capital markets.

Powered by high-quality and timely company, asset, industry, and alternative data, our suite of Data Management Solutions is here to help you streamline your workflow. Leverage our flexible technology to enhance your proprietary analytics, build and enrich data warehouses, discover patterns unique to your business, and more. As part of our Data Management Solutions offering, we have streamlined the loading and maintenance process so you can get the data you need—inclusive of our comprehensive standardized, point-in-time data and our growing number of ESG and textual datasets. This data, when combined with our core offerings, creates the insights you can rely on to answer critical questions. With differentiated data, robust solutions, and flexible delivery options available from the S&P Global Marketplace, you will be equipped to solve problems and build solutions with confidence.

Explore all our datasets and solutions and request additional information at [S&P Global Marketplace](#).

Industry Detail Estimates

Effective December 18, 2021, we expanded our Detail Estimates offering with [industry-specific detail estimates](#) data for 24 distinct items within the industries of banking, insurance, and REITs.

Industry-specific operating forecasts are generally used to provide insight into the health of a company and serve as performance indicators during company analysis and in-depth valuation.

Industry Estimates data could help you:

- Track analyst performance comparing historical vs. actuals vs. company projections to identify and stay on top of industry trends
- Evaluate the track record of investment managers with performance indicators that can be used during fundamental analysis for portfolio balancing and selection
- Gauge market sentiment and track broker initiation of coverage/change in recommendations
- Understand your position within an industry and how operating forecasts are used to make accurate valuations as part of your overall company analysis
- Use sell-side equity research to benchmark industry specific operating forecasts vs. consensus
- Analyze the competitors' industry position

Explore the S&P Capital IQ Estimates dataset and request additional information at [S&P Global Marketplace](#).

Xpressfeed™ and Snowflake

Recent Enhancements

Preqin Data Enhancements in Xpressfeed

We are pleased to announce that in December 2021 we released [Preqin Private Debt and Buyout Data](#) in the:

✓ **Preqin Private Equity Deals Exit and Tranche package**

- Complements our earlier release of Deals Exit and Tranche data for Private Debt (DB), Private Equity (PE), Infrastructure (INF), and Real Estate (RE) alternative asset classes in November
- Offers comprehensive transactions data on rounds of funding and M&A deals that track the entire life cycle of an investment
- Allows you to exercise due diligence on investments
- Helps you identify top-performing managers

✓ **Preqin Deals Private Debt and Buyout Cross Reference package**

This offering fully integrates multiple deal and transactions datasets with links to the SNL and S&P Capital IQ transaction-level identifiers.

Explore the Preqin dataset and request additional information at [S&P Global Marketplace](#).

Preqin Delivery Enhancements in Snowflake

We made Preqin Private Debt Deals and Private Equity Deals Cross Reference, as well as Preqin Private Equity Relationships, packages available in Snowflake.

Coming Soon

Coming soon via S&P Global Data on Snowflake and Xpressfeed

Machine Readable Broker Research – Additional Brokers

In September 2021, we introduced a machine-readable version of Exane BNP Paribas research reports through Xpressfeed and Snowflake. Research reports from additional brokers will be coming soon.

With these new textual data sources, you'll be able to link to S&P Capital IQ Estimates to perform both quantitative and NLP analysis on the same estimate report. Similar to our existing machine-readable company filings, broker analytical reports are broken down into identifiable sections, with extraneous information such as page numbers removed to streamline your textual data analysis. Note that broker research will require a separate agreement with each broker.

Point-In-Time Corporate Hierarchy

We are planning to release a point-in-time version of the ultimate parent cross reference package containing links between an entity and its ultimate parent, on a historical and on-going basis. You will be able to identify when a parent-to-subsidiary relationship was established or changed.

Non-English Filings in Machine Readable Filings

Non-English language filings will soon be added to our Machine Readable Filings offering. As with the English language filing types, the non-English filings provide:

- basic metadata in the filing
- raw text in the filing broken down into the sections identified in the document

Compustat® Fundamentals

We plan to add the following three new credit loss data items to existing Snapshot packages:

- Provision for Credit Losses on Loans
- Provision for Credit Losses on Securities
- Community Bank Leverage Ratio (CBLR)

In the aftermath of the 2008/2009 recession, FASB initiated an accounting standard to change the way losses are incurred on loans. This accounting standard changes the way banks and credit unions record losses from when it becomes probable that a loss will occur, to instead having a forward-looking impairment approach which records expected losses on the first day of origination or acquisition—a Current Expected Credit Loss model (CECL).

While loans are the main focus, the accounting standard has implications for all types of financial assets and the reporting of disclosures.

S&P Capital IQ Financials Intraday – Adding Brazilian Private Companies

We plan to enhance our S&P Capital IQ Financials Intraday offering by adding approximately 13,000 Brazilian private companies to the **S&P Capital IQ Premium Financials** and **S&P Capital IQ Latest Financials** Intraday data.

Key Development/Events Enhancement

We will be enhancing the Key Development/Events package by including additional keyDevEventTypelds.

Transactions Enhancement

We will be adding a new *advisorTypeld* to the S&P Capital IQ Transactions package.

Preqin Enhancements

- ✓ We plan to add additional data points to Preqin Asset Class packages.
- ✓ We plan to enhance our Preqin Deals Cross Reference offering with Deals Cross Reference packages for Preqin Real Estate and Infrastructure Deals.

SME Corporate Structure

We plan to expand our European SME universe by delivering ‘Federated Companies Corporate Structure’ data for private European companies via Xpressfeed.

RatingsXpress®: ESG Evaluations in Xpressfeed

We plan to make the S&P Global Ratings ESG Evaluations available in Xpressfeed. S&P Global Ratings ESG Evaluation is a one-of-a-kind assessment of a company's ESG strategy and ability to prepare for potential future risks and opportunities.

RatingsXpress CreditPro® Data in Snowflake

We plan to make the CreditPro LossStats and CreditPro Defaults and Ratings Transitions Data packages, currently available in Xpressfeed, also available in Snowflake.

Announcements

New S&P Capital IQ Financials Intraday Feed Migration

We would like to remind you that S&P Global Market Intelligence has introduced Intraday updated S&P Capital IQ Premium Financials and S&P Capital IQ Latest Financials, which will replace the current End of Day (EOD) versions of the S&P Capital IQ feeds in Q1 2022.

Intraday delivery of S&P Capital IQ Latest and S&P Capital IQ Premium Financials delivers data faster compared to the End of Day (EOD) version of the data feeds. Intraday S&P Capital IQ Financials use the same database structures as today's EOD versions to facilitate a quick and seamless transition from EOD feeds. Please contact your account representative in order to take advantage of the S&P Capital IQ Intraday Financials Datafeed today!

Intraday Financials Highlights

- **Speed:** Intraday S&P Capital IQ Financials deliver financial data more quickly than EOD versions
- **Stability:** Intraday S&P Capital IQ Financials can send catchup transactions much faster, more than twice a day if needed, as a part of regular data delivery
- **Simpler Packaging:** Intraday S&P Capital IQ Financials have simplified packages (zip files) by combining previously separated packages (Industry Specific, Market Data)
- **Faster Loader Performance:** Intraday works with the Xpressfeed Loader version 5.8 or above (note, current version is 5.10), which improves the data loading process tremendously by negating the unzipping process

Please note:

- EOD S&P Capital IQ Premium Financial and EOD S&P Capital IQ Latest Financial feeds will be sunset by 03/31/2022
- Intraday packages were added to new folders within your EDX account by mid-October 2021
- If you want to proceed with the Intraday migration, please contact our customer support or your account representative

More detailed migration documents are available: [Intraday Latest Financials Migration Document](#) and the [Intraday Premium Financials Migration Document](#).

Please consult with your account representative to start your upgrade to S&P Capital IQ Intraday Financials feed today!

GICS Consultation Extended

S&P Dow Jones Indices (S&P DJI), a leading provider of financial market indices, and MSCI Inc. (MSCI), a leading provider of research-based indexes and analytics have decided to consult with members of the investment community on potential changes to the GICS structure in 2022.

The review is intended to ensure that the GICS structure is reflective of today's markets and continues to be an accurate and complete industry framework.

The consultation, which began on October 18, 2021, has been extended to February 18, 2022. Any changes to the GICS structure are expected to be announced by March 2022, with an expected GICS Direct implementation date in March 2023. In addition, S&P Global and MSCI will provide proforma classifications for a select list of companies potentially impacted by the consultation with market capitalization above US \$2 billion no later than January 21, 2022. Please note that the proforma classifications should only be used for preliminary analysis and should not be considered as final classifications even if the proposals are ultimately adopted. This consultation may or may not result in any changes to the GICS structure.

Key highlights of this consultation are potential changes to the classification of renewable energy companies and retailers within the GICS framework. In addition, the consultation covers potential changes for Data Processing & Outsourced Services, Banks and Thrifts & Mortgage Finance, REITs, Transportation, and an update in the GICS definition for cannabis.

Additional details can be found in the [press release](#) and full details on the proposals can be found in the [GICS Consultation document](#).

Mode of Consultation

There are two options for participating in this year's consultation:

1. Click on the link below to participate in the online survey:
S&P DJI:
<https://www.spglobal.com/spdji/en/governance/consultations/mr47787/>
2. Contact one of the following email addresses with your feedback:
S&P Dow Jones Indices: index_services@spglobal.com
S&P Global Market Intelligence: support.datafeed.mi@spglobal.com

Service Advisory Reminders

[Packages to Be Replaced – Upgrade Soon!](#)

Research, Blogs, and Webinars

Case Study: “An Investment Manager Discovers an Efficient Way to Identify Valuable Data”

The research team at a quantitative firm in Europe wanted to continually push the envelope and generate new ideas for the firm's portfolio managers. For this to happen, they needed to access and analyze a wide variety of information. They realized that analyzing all this information would be an onerous task for a small

firm. They also knew that S&P Global Market Intelligence was the innovative solution that would give them:

- **Ready access to all the data needed** from a singular trusted provider
- **The ability to use a web-based notebook environment for exploratory data analysis**
- **Flexibility** to use multiple programming languages
- **Strong visualization capabilities** to better understand trends, outliers, and patterns

Read the full case study [here](#).

Blog: “Unlocking the Full Potential of Earnings Transcripts with Kensho NERD”

Most of the 3,500+ U.S.-based, publicly traded companies listed on major exchanges hold conference calls shortly after announcing quarterly earnings. The transcripts can be a rich source of information, often revealing insights not readily apparent in a company’s financial reports. However, the volume of information can be overwhelming for any analyst that needs to follow a portfolio of companies. There are several challenges that make it difficult to zero in on relevant information. This blog discusses three of these challenges:

- Companies may be mentioned in numerous transcripts, not just their own
- Companies can have names that include commonly used words
- Companies are often referred to by acronyms, ticker symbols, or previously used names (when doing historical analysis)

To help make transcripts reviews easy and more insightful, the blog also introduces *Kensho Named Entity Recognition and Disambiguation on Transcripts* (“NERD”), a cutting-edge machine-learning system that unlocks the full potential of textual data found in [S&P Global Market Intelligence’s Machine-Readable Transcripts](#). NERD identifies all companies that were discussed in any way in a transcript and where the mentions occurred. It then links the mentions to the appropriate S&P Capital IQ company ID, augmenting the textual data by making connections with other sources of structured knowledge for deeper insights, such as data provided through Xpressfeed and Snowflake.

Read the full blog [here](#).

Video: “Stock Price Prediction Using China Sentiment Analytics and the Marketplace Workbench”

Sophisticated technologies such as Natural Language Processing (NLP) and Optical Character Recognition (OCR) have been increasingly used to create textual sentiment indicators in order to gauge the financial health of companies. These technologies are especially helpful in markets such as China where there is a lack of reliable and timely financial data.

See how S&P Global Data Scientist, Andrew Bovey, used the China Sentiment Analytics dataset with the Marketplace Workbench to create textual sentiment indicators for stock price prediction in the Chinese market. In this video, we will preview:

- How to extract and break down the raw text (in simplified Chinese) from the financial disclosures section into sub-components for analysis
- Calculating sentiment scores at a section, article, and company level

- Potential causal relationships between Chinese stock price movements and their underlying sentiment data
- Whether or not the China Sentiment Analytics dataset can help us predict future values of a separate signal

Watch the video [here](#).

Webinar Replay – Machine Readable Filings for Actionable Insights with Databricks

Companies change their business models over time to adapt to technological changes. As a result, traditional methods for classifying companies may not capture the changes in a company's underlying business functions.

S&P Global Product Management and Data Science teams collaborated with Databricks to create notebooks that leverage **S&P Global Textual Data** and **natural language processing (NLP)** to create value by learning the contextual meaning of words in company filings. The notebooks detect similarities among companies by analyzing the Business Overview section of 10-K filings, show how industries have evolved by looking at several companies' business narratives and seeing how they changed over a 10-year period, and analyze outliers—companies that might be classified in the wrong industry, as well as ones that have changed the most over time.

Access a replay [here](#).

New on the S&P Global Marketplace – S&P Global Quantamental Research: Natural Language Processing

In response to the growing availability of textual data, along with an increased interest in natural language processing (NLP), our S&P Global Quantamental Research team has compiled various research papers, with accompanying Python code, to provide tangible use cases for NLP and textual data to help you get started today on generating new ideas for your business.

Machine Readable Transcripts

[Natural Language Processing - Part I: Primer](#)
[Natural Language Processing - Part II: Stock Selection](#)
[Natural Language Processing - Part III: Feature Engineering](#)

Machine Readable Filings

[Hiding in Plain Sight - Risks That Are Overlooked](#)
[U.S. Filings: No News is Good News](#)

Explore the S&P Global Quantamental Research team's leading work utilizing Natural Language Processing with our Textual Data offerings on the [S&P Global Marketplace](#).

API

Legacy Email Address Has Been Sunset

We would like to remind you that the legacy email address APISupport@spglobal.com was sunset as of January 1, 2022.

If you haven't already, we strongly encourage you to start using our updated support email address for S&P Market Intelligence API/API Drive/EDA & Kensho Link users: support.api.mi@spglobal.com.

S&P Capital IQ API

Advisory: Performance Enhancements to the S&P Capital IQ API

We will be making some performance enhancement changes to the S&P Capital IQ API Platform which may require some request modifications on your end. We are targeting this release to be available in early Q2 2022.

We will create a new endpoint for advance testing and will make it available to you in early January along with documentation related to these changes.

Please watch for related communications.

XpressAPI

Coming Soon

Backdating for CreditPro Reports

We will be adding a backdating feature to our CreditPro Report offering via XpressAPI and API Drive. With this enhancement you will be able to access historical CreditPro reports.

Service Advisory on log4j Software Library

As you may be aware, a Remote Code Execution (RCE) vulnerability (CVE-2021-44228) was identified in the log4j software library.

Protecting our customers' data is a top priority at S&P Global and our Cyber Security team continues to actively monitor this situation. S&P Global has been working diligently to implement layered security defenses to protect our systems as well as addressing the vulnerability on systems that potentially leverage the affected software package.

At this time, there is no information or evidence to suggest that S&P Global has been adversely impacted by this event. Additionally, we have not been notified of any adverse impact with our critical vendors. However, we remain vigilant and are proactively contacting our critical vendors.

S&P Global discloses risk factors and material changes, including cyber risks and related matters, in accordance with its US SEC disclosure obligations in its public filings. You can find these filings on S&P Global's investor relations website and on the US SEC's website.

Product Development Summary 2021

- [S&P Global Marketplace](#)
- [API](#)
- [Awards](#)
- [ClariFI](#)
- [S&P Global Data on Snowflake](#)
- [Xpressfeed](#)
- [Research, White Papers, Webinars](#)

S&P Global Marketplace

In 2021, we introduced [Marketplace Workbench](#), a web-based, user-friendly notebook environment that allows you to test, explore, and experiment with datasets from S&P Global and curated third-party providers.

Within Workbench, you can perform exploratory data analysis or build models using collaborative notebooks that support multiple languages, built-in data visualizations and automatic versioning. You can easily analyze and review both pre-built S&P Global notebooks, or build your own, to better understand and see first-hand the value of various datasets. Workbench makes data analysis and R&D simple and efficient.

We also introduced [Product Finder](#), the interactive search tool on the Marketplace storefront which makes it easy for you to find datasets and solutions to match your interests and workflows. You can use Product Finder to return relevant product tiles for:

- **Popular Topics** (e.g., Alpha Generation, Climate & ESG Intelligence, and Master Data Management)
- **Your Role** (e.g., Academic Institution, Commercial Bank, and Investment Manager)

We announced our modernized, search-driven [support site](#).

API Enhancements

January	S&P Capital IQ API	Improved exception handling by our S&P Capital IQ API.
February	Kensho Link over API Drive	Enhanced the UID sorting order in the output file to retain the same UID order as given in the input file in Kensho Link over API Drive.
	Credit Analytics	Added new ratio benchmark mnemonics to the Credit Indicators dataset in the CreditModel and PD Fundamentals data subgroups. These mnemonics display the benchmark ratio value of a company's country, industry, index, or country and industry combination.
	FiscalNote	Released FiscalNote U.S. Legislation & Regulation data over XpressAPI and Amazon S3. In addition to analytics data, this dataset includes machine-readable textual data for U.S. bills and regulations.
May	XpressAPI	Introduced XpressAPI, our modern API delivery solution. XpressAPI delivers data as endpoints in a Swagger user interface , with fields and parameters mapped out in a clean user interface. After logging

API Enhancements		
		<p>in, you can try the interactive menus, dropdowns, and free-form fields without writing any code.</p> <p>Swagger also provides machine-readable JSON docs that adhere to the OpenAPI Specification. The JSON doc can be imported into standard API development tools to streamline your data deployment.</p>
	<i>Financials</i>	Added two new EBITDA items related to changes in lease accounting rules as introduced by the FASB (ASC 842) and IASB (IFRS 16).
	<i>Credit Analytics</i>	<p>Made the following enhancements to our Credit Analytics offering in our S&P Capital IQ API:</p> <ul style="list-style-type: none"> • Recalibration of all scores, ratios, and benchmarks in the PD Fundamentals, PD Market Signal, and CreditModel families • Dataset name change to Credit Analytics for all model data except for 13 mnemonics • Addition of 126 new items to Credit Analytics data in the PD Fundamentals, PD Market Signal, CreditModel and PaySense model families
June	<i>Date Format</i>	Updated date format to MM/DD/YYYY for the IQ_CLOSEPRICE mnemonic in the S&P Capital IQ API.
	<i>RatingsXpress CLO Monitor Metrics</i>	<p>Added RatingsXpress CLO Monitor Metrics to XpressAPI.</p> <p>The CLO Monitor Metrics are benchmarks which provide transparency into S&P Global Ratings' perspective on Collateralized Loan Obligation credit quality amid information requests from CLO investors and arrangers.</p>
	<i>Trucost Environmental Data</i>	<p>Introduced Trucost Environmental Data on XpressAPI.</p> <p>Trucost Environmental Data can help you:</p> <ul style="list-style-type: none"> • Understand your exposure to climate change, natural resource constraints, and broader environmental factors • Create shareholder value by engaging with companies and investors on environmental factors • Quantify and price risks in your portfolios • Assess and manage operational and supplier risks • Report environmental risks in your portfolios to stakeholders
July	<i>Trucost Carbon Earnings at Risk</i>	<p>Released Trucost Carbon Earnings at Risk data on XpressAPI.</p> <p>Trucost Carbon Earnings at Risk data quantifies the potential impact to company earnings today if companies were mandated to pay a future price for their greenhouse gas emissions.</p>
	<i>Trucost Paris Alignment Data</i>	Introduced Trucost's Paris Alignment data on XpressAPI. This dataset assesses company-level alignment with the Paris Agreement goal to limit global warming to well below 2°C from pre-industrial levels.
August	<i>RatingsXpress Credit Pro Reports (API Drive)</i>	Released CreditPro Reports for the Corporate sector with history back to 1981 on API Drive.

API Enhancements		
	<i>Credit Analytics (S&P Capital IQ API)</i>	<p>Added 12 new expanded Probability of Default metrics to our PD Fundamentals Model.</p> <p>Separately, we added a new RiskGauge subgroup with 83 metrics to our Credit Analytics offering. An evolution of our Credit Risk Scores, this new and improved score combines elements of a company's Probability of Default (PD) Fundamental, PD Market Signal, and CreditModel™ Scores.</p>
	<i>Datasets Available via XpressAPI</i>	<p>Additional datasets available in XpressAPI:</p> <p>BuildFax Company Relationships – Recently Added Corporate Details – Recently Added Cross Reference Service – Recently Added FiscalNote IPgwy Marketplace Catalog – Recently Added RatingsXpress CreditPro on XpressAPI – Recently Enhanced RatingsXpress CLO (Collateralized Loan Obligation) Monitor Metrics S&P Global Ratings ESG Evaluations – Recently Added RatingsXpress: Macroeconomic Credit Conditions – Recently Added SNL Bank Summary SNL Real Estate Property Trucost Carbon Earnings at Risk Trucost Environmental data Trucost's Paris Alignment data Yewno's Judicial Analytics</p>
September	<i>New Client Libraries (S&P Capital IQ API)</i>	Revised client libraries to support the new Credit Analytics property “threshold.”
	<i>SNL Bank Summary (XpressAPI)</i>	Added six new data items to the SNL Bank Summary dataset. This dataset provides a comprehensive view of the banking sector by delivering harmonized line items and key ratios for banks across the globe.
November	<i>RatingsXpress CreditPro</i>	Enhanced our CreditPro offering on our XpressAPI and API Drive solutions by adding new reports for the Corporate, Sovereign, and Structured Finance sectors.
	<i>RiskGauge Model</i>	<p>Added ten Expanded Probability of Default (EPD) mnemonics and one score date mnemonic to our Credit Analytics data.</p> <p>All mnemonics appear in the Credit Analytics Data Set, RiskGauge Model Data Set subgroup. The RiskGauge model scores combine elements of a company's Probability of Default (PD) Fundamental, PD Market Signal, and CreditModel™ Scores.</p>
	<i>Credit Analytics</i>	Enhanced our Credit Analytics offering by adding 20 new mnemonics to the PD Fundamentals, CreditModel, and PD Market Signal model families.
	<i>Trucost Physical Risk</i>	Released the Trucost Physical Risk dataset through our XpressAPI solution. The dataset provides company- and asset-level assessment of the physical risks resulting from climate change. The physical risk

API Enhancements

assessment is based on scores that measure the risk of the occurrence of climate changes as well as scores that reflect a specific company's relative sensitivity to climate change indicators.

Awards

S&P Global Marketplace Hackathon

In February, S&P Global Market Intelligence hosted our first Hackathon. [Watch the webinar replay](#) with Hackathon winner, Victor Li, Quantitative Equity Strategist, Wolfe Research.

Industry Recognition

We were recognized as an industry leader in several categories during 2021:

Data Management Insight Award

- *Best Data Provider to the Sell-Side*

Institutional Asset Awards

- *Best Data & Analytics Provider*

Inside Market Data (IMD) and Inside Reference Data (IRD) Awards

- *Best Enterprise Data Management Initiative* for S&P Global Data via Snowflake
- *Best Research Provider* for our complete research offering from experts across S&P Global, including Quantamental Research, Aftermarket Research, 451 Research, Credit Risk Research, Panjiva Research, and Market Intelligence News.

Waters Rankings

- *Best Artificial Intelligence (AI) Technology Provider for Kensho Solutions via the S&P Global Marketplace*

ClariFI Enhancements

September	Trucost Climate Change Physical Risk	Announced the availability of Trucost Climate Change Physical Risk, a dataset that evaluates company-level exposure to physical risks for 15,000+ listed companies, starting in 2019 and updated annually. The dataset includes analysis of seven climate change indicators, such as heatwaves, cold waves, water stress, hurricanes, wildfires, flood, and sea-level rise.
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S&P Global Data on Snowflake Enhancements

January	SNL Asset-Level Data	Released SNL asset-level data via Snowflake: <ul style="list-style-type: none">• SNL Insurance• SNL Metals & Mining
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S&P Global Data on Snowflake Enhancements		
		<ul style="list-style-type: none"> • SNL Energy • SNL Media
	Weather Source Data	Released U.S. and global hourly Weather Source data via Snowflake. This dataset provides climatology, historical, and forecast weather data through a strategic collaboration with Weather Source.
February	Trucost Carbon Earnings at Risk Data	Released Trucost Carbon Earnings at Risk data , with company-level exposure to current and future carbon pricing scenarios to help you develop estimates of financial risk.
	MedMine Medical Device Transactions	Released MedMine data via Snowflake , including medical device sales information collected from the purchase orders of over 2,000 North American hospitals, surgical centers, and medical groups.
March	China Sentiment Analytics	Released the China Sentiment Analytics dataset, which consists of both textual data and sentiment scores generated for listed SMEs, private and public companies from sources such as NEEQ, New Third Board and more. As a result, you gain more transparency into small and medium sized businesses located in China.
	Trucost Paris Alignment Data	Released Trucost Paris Alignment data via Snowflake . The dataset focuses on companies' plans to reduce emissions in order to keep the global temperature rise below 2°C from pre-industrial levels. Forecast data is available through 2025.
	China Sentiment Analytics	Enhanced the user experience and auditability of the China Sentiment Analytics dataset by introducing the <i>calculationDate</i> field in all secure views.
May	S&P Capital IQ Fundamentals	Enhanced our S&P Capital IQ Fundamentals offering by adding 22 Restricted Stock Units (RSU) data items to Snowflake. This enhancement to our fundamentals offering provides you with a more complete picture of a company's financial position in terms of equity compensation and diluted shares outstanding.
July	Bitsight	Delivered BitSight Cybersecurity Metrics for organizational cybersecurity performance via Snowflake. Ratings are generated from data that includes evidence of system compromises, such as botnets and other malware, security diligence practices, such as SSL configurations and open ports, and evidence of file sharing activities on a company's network.
September	Machine Readable Broker Research	Delivered the first package of machine-readable broker research through Xpressfeed and Snowflake. The first broker is Exane BNP Paribas.
	451 Research	Launched 451 Research Datacenter KnowledgeBase via Xpressfeed and Snowflake. This dataset provides datacenter location, services, and utilization data to support cloud services, ESG, energy, media, and critical infrastructure analysis. 451 Research Datacenter KnowledgeBase will give you access to 7,300 colocation and wholesale datacenter facilities, covering more than 90 data points per facility.

S&P Global Data on Snowflake Enhancements		
November	<i>Transactions</i>	<p>Added two new use of proceeds codes to the Transactions Offerings reference data in Xpressfeed and Snowflake. The new codes relate to transactions in the SNL Metals & Mining industry:</p> <ul style="list-style-type: none"> • Development Capital • Exploration
December	<i>Preqin</i>	<p>Added Preqin Private Debt Deals and Private Equity Deals Cross Reference, as well as Preqin Private Equity Relationships, packages to Snowflake.</p>

Xpressfeed Enhancements		
January	<i>Private Company Financials</i>	Expanded our private company financials coverage with data for Denmark, Norway, Sweden, and other countries .
	<i>MI Transactions</i>	<p>Enhanced our Transactions offering with MI Transactions – Rounds of Funding data for public and private companies, including:</p> <ul style="list-style-type: none"> • Liquidation preference (status and multiple) • Participating preferred share cap • Dilution agreements • Other key term sheet items commonly negotiated by VCs and other private company investors
	<i>SNL Bank Regulatory Data</i>	Added <i>dataItemId=213872 Net Interest Margin (FTE)</i> to SNL Bank Regulatory Data.
	<i>SNL Corporate Data</i>	Added basic company information for approximately 730,000 new companies, expanding corporate data beyond the universe of our SNL Fundamentals offering.
	<i>Panjiva Supply Intelligence</i>	<p>Started delivering Panjiva Supply Chain Intelligence packages in 'All Years' format for the following countries:</p> <ul style="list-style-type: none"> • Pakistan • Panama • Paraguay • Peru • Uruguay • U.S. Export and U.S. Import 2020 onward • Mexico 2020 onward
February	<i>Xpressfeed Loader v5.10.3</i>	<p>Released Xpressfeed Loader v5.10.3 featuring several enhancements, including:</p> <ul style="list-style-type: none"> ✓ <i>Support for the Galois Counter Mode (GCM) cipher suite:</i> This enhancement increases the security of file transfer over TLS while also improving SFTP performance. ✓ <i>SFTP client upgrade:</i> This enhancement improves Secure FTP performance over SSH. ✓ <i>Upgrade to the latest JDBC Drivers for SQL Server, Oracle, PostgreSQL, and MySQL:</i> This enhancement strengthens support

Xpressfeed Enhancements		
		<p>for the latest versions of the RDBMS, namely SQL Server 2019, Oracle 19c, PostgreSQL 13, and MySQL 8.0.</p> <p>✓ <i>Upgrade to the latest JDK version of Corretto 8:</i> The latest version of Corretto 8 – jdk1.8.0_265, the no-cost, multi-platform programming language, includes performance enhancements and security fixes.</p>
	<i>Trucost Carbon Earnings at Risk Data</i>	Released Trucost Carbon Earnings at Risk data via Xpressfeed . This dataset enables you to access company-level exposure to current and future carbon pricing scenarios and develop estimates of financial risk.
	<i>Private Company Financials</i>	In partnership with CreditSafe, we recently delivered private company ratio data , including Gross Profit Margin, Asset Turnover, Current Ratio, and Total Debt/Equity for the United Kingdom and Ireland.
	<i>FTSE Index</i>	Added Total Return Net to our FTSE Index Level offering. We also added the Singaporean Dollar for Total Return Gross and Price Return to the FTSE Straits Time Index.
	<i>RatingsXpress: Research</i>	Added the full text of credit research articles and commentaries from S&P Global Ratings to Xpressfeed.
	<i>SNL Bank Regulatory Data</i>	Introduced 39 new data items related to the Q4 Bank Holding Companies guidance and the FFIEC 101/FR Y-15 report; and republished 11 'best-of' data items .
	<i>SNL Fundamentals</i>	Added Global Information Technology companies to SNL Fundamentals, increasing our holistic coverage for the Technology, Media, and Telecom (TMT) industry.
	<i>Transactions</i>	Added advisor type IDs 4 through 41(except 6 which already existed) to the ciqTransactionToAdvisor table.
	<i>Trucost Environmental Data</i>	Added two years of data—2018 and 2019—to the Trucost Environmental dataset for 4,411 private companies.
March	<i>Machine Readable Filings</i>	Added parsed text from non-U.S. annual, interim reports, and other supplemental filings to our Machine Readable Filings dataset .
	<i>Kensho NERD</i>	Introduced Kensho NERD (Named Entity Recognition and Disambiguation), a cutting-edge machine learning system that unlocks the full potential of your textual data by linking it to existing sources of structured knowledge. NERD is the only system optimized to extract financial entity information from text documents.
	<i>S&P Global Preqin Data</i>	Released Preqin Private Equity Data via Xpressfeed , with coverage of private equity, private debt, real estate and infrastructure asset level data starting in 2000.
	<i>Trucost Paris Alignment Data</i>	Released the Trucost Paris Alignment dataset via Xpressfeed . The dataset focuses on companies' plans to reduce emissions in order to keep the global temperature rise below 2°C from pre-industrial levels. Investors can use Trucost Paris Alignment data to track a company's actual and forecasted carbon intensity. Forecast data is available through 2025.

Xpressfeed Enhancements		
	<i>Private Company Financials</i>	In partnership with CreditSafe, we delivered private company ratio data , including Gross Profit Margin, Asset Turnover, Current Ratio, and Total Debt/Equity for France and Germany.
	<i>RatingsXpress: Research</i>	Enhanced our offering of full text credit research articles and commentaries in RatingsXpress: Research. In addition to the full sector offering of GISFPF, we added two packages for the Global Issuers (GI) and Structured Finance (SF) sectors.
	<i>Panjiva Supply Intelligence</i>	Delivered Panjiva Supply Chain Intelligence 'All Years' packages for: <ul style="list-style-type: none"> • Chile • Colombia
April	<i>Market Intelligence News</i>	Released Market Intelligence News in Xpressfeed, which provides deep, industry-specific news articles written by 300+ journalists worldwide. With 500+ articles and 180+ stories per month, news is published using S&P Market Intelligence data to offer robust, fact-based news.
	<i>Private Company Financials</i>	Delivered private company ratio data , including Gross Profit Margin, Asset Turnover, Current Ratio, and Total Debt/Equity for Italy.
	<i>RatingsXpress: Research</i>	Released a new intraday (span) package for RatingsXpress: Research Global Issuers, Structured Finance, and the U.S. Public Finance sectors (GISFPF).
	<i>SNL Insurance Statutory</i>	Added 33 new private flood insurance data items for the Property and Casualty (P&C) filer types for the year 2020 to align with National Association of Insurance Commissioners (NAIC) recommendations.
	<i>Panjiva Supply Intelligence</i>	Delivered Panjiva Supply Chain Intelligence 'All Years' packages for Brazil and Ecuador.
May	<i>BECRS</i>	Added Korean Tax identifiers from the Korea Listed Companies Association (KLCA) to our Business Entity Cross Reference Service (BECRS).
	<i>MSCI</i>	Added 86 new MSCI indices to the MSCI core Asia Pacific, Developed Markets, and Emerging Markets packages.
	<i>Private Company Financials</i>	In partnership with CreditSafe, we delivered private company ratio data for Belgium, the Netherlands, and Luxembourg.
	<i>S&P Capital IQ Fundamentals</i>	Added Restricted Stock Units (RSU) data items to Xpressfeed.
	<i>SNL Bank Regulatory</i>	Enhanced the SNL Bank Regulatory offering by adding five new data items , including memo fields pertaining to off-balance sheet credit exposure and estimated expected recoveries that were previously written off. In addition, we updated six data items marked historical by regulators beginning 12/31/2020.
	<i>SNL Fundamentals</i>	Added <i>COVID-19 Losses (dataItemId = 329011)</i> to COVID-19 to SNL Fundamentals.
	<i>Panjiva Supply Intelligence</i>	Expanded Panjiva 'All Years' history for Mexico to 2017 onward, and for the U.S., to full history.

Xpressfeed Enhancements		
June	BECRS	Provided the Trucost company-level identifier (Trucost ID) through a new identifier package in the BECRS (Business Entity Cross Reference Service). This new identifier allows you to link Trucost data to other company-level data delivered in Xpressfeed.
	Preqin	Expanded our private equity coverage with new Benchmarks, Hedge Funds, and Natural Resources packages from Preqin.
	Private Company Financials	CreditSafe became our sole provider for European private company financials . We also delivered private company fundamental and ratio data for Iberia (Spain and Portugal) and Suppl (Finland and Austria) .
	RatingsXpress: Research	Enhanced our offering of full text credit research articles and commentaries in RatingsXpress: Research with new intraday (span) packages for the Structured Finance (SF) and Global Issuer and Public Finance (GIPF) sectors.
	RatingsXpress: Research	Delivered full-text credit research articles and commentaries parsed into sections with new RatingsXpress Research Sections intraday (span) packages for the Global Issuer (GI) and the GI and Structured Finance (GISF) sectors.
	SNL Insurance Statutory	Expanded our SNL Insurance Statutory Data offering in Xpressfeed and Snowflake by adding 2020 annual packages for the Life & Health (L&H) and Property and Casualty (P&C) sectors.
July	S&P Capital IQ Financials	Enhanced data item descriptions for all S&P Capital IQ Financials datasets. Improved definitions include the S&P Capital IQ Excel formula and additional calculation information for the data item value.
	BECRS	Enhanced the Business Entity Cross Reference Service (BECRS) by adding the BIC SWIFT codes . The codes enable international payment processing.
	SNL Fundamentals	Added new data items to SNL Fundamentals including Current Expected Credit Loss (CECL) accounting fields. These fields apply to US banks and Total Loss Absorbing Capacity/Minimum Required Eligible Liabilities (TLAC/MREL) regulatory fields from a Basel III standpoint.
	RatingsXpress Research	Added full text credit research articles and commentaries for the Public Finance (PF) sector to RatingsXpress: Research. We also added packages that exclusively deliver credit research commentaries.
	S&P Capital IQ Fundamentals	Added Provision for Credit Losses on Loans & Provision for Credit Losses on Securities to S&P Capital IQ Fundamentals.
	Panjiva Supply Intelligence	Delivered 'All Years' Panjiva Supply Chain Intelligence packages for Sri Lanka.
August	Kensho NERD on Transcripts	Leveraged the power of Kensho NERD with Kensho NERD on Transcripts . NERD identifies company names and aliases mentioned during earnings calls and specifies the location in the transcript where these companies were mentioned. This allows you to analyze a company's own conference calls as well as additional calls where that company name is used.
	Xpressfeed Loder v5.10.3 Patch Release	The v5.10.3 patch release features several enhancements, including: <ul style="list-style-type: none"> ✓ EDX FTP Libraries: Upgraded to the latest version 7.1.0 of EDX FTP libraries.

Xpressfeed Enhancements		
		<ul style="list-style-type: none"> ✓ JDBC Drivers: Upgraded to the latest JDBC Drivers for Microsoft SQL Server (9.2.1), Oracle (21.1), PostgreSQL (42.2.22), and MySQL (8.0.25). This enhancement strengthens support for the latest versions of the RDBMS, namely SQL Server 2019, Oracle 19c, PostgreSQL 13, and MySQL 8.0. ✓ Corretto 8: Upgraded to the latest JDK version of Corretto 8 – jdk1.8.0_292. This is a no-cost, multi-platform programming language with performance enhancements and security fixes.
	<i>Trucost Paris Alignment Data</i>	Increased the company coverage of our Trucost Paris Alignment Data offering from 4,438 to approximately 14,399 companies.
	<i>GICRS</i>	Enhanced the Global Instruments Cross Reference Service (GICRS) with the addition of the ISO CFI (isoCfiCode) and the US CFI (usCfiCode) for 5 million mortgage-backed securities.
	<i>Private Company Financials</i>	In partnership with CreditSafe, our sole provider for European private company financials , we delivered private company fundamental and ratio data for the following Nordic countries: Denmark, Norway, and Sweden .
	<i>RatingsXpress</i>	Released RatingsXpress CreditPro Loss Stats on Xpressfeed . CreditPro LossStats, the U.S. Corporate Recovery dataset, includes over 5,300 debt instruments from approximately 1,000 obligors that have emerged from default. Recovery performance history dates back to 1987 and is updated monthly.
	<i>RatingsXpress: Research</i>	Enhanced our offering of RatingsXpress Research by providing three new sections packages for the Public Finance (PF), Structured Finance (SF), and the Global Issuer and Public Finance (GIPF) sectors with intraday (span) delivery.
	<i>S&P Capital IQ Financials</i>	Enhanced our S&P Capital IQ Premium and Latest Financials offerings by adding data on Vietnamese public companies to the Financials Core packages.
	<i>Transactions</i>	<p>Added new features to Transactions M&A, including forward sales, involvement of private investors, open offer, and more.</p> <p>Updated Transactions Offerings Use of Proceeds IDs breaking out <i>Working Capital</i> and <i>General Corporate Purposes</i> into two separate codes.</p> <p>Added several new Transactions Offerings fee types.</p>
	<i>Panjiva Supply Intelligence</i>	Delivered 'All Years' Panjiva Supply Chain Intelligence packages for India.
September	<i>Machine Readable Broker Research</i>	Delivered the first package of machine-readable broker research from Exane BNP Paribas through Xpressfeed and Snowflake.
	<i>Trucost Environmental Data – Private Companies</i>	Delivered Trucost Environmental Data – Private Companies , a new dataset from Trucost on the environmental performance of private companies. This new dataset addresses the investment community's growing interest in the environmental exposure of private companies and in the privately-held supply chain.

Xpressfeed Enhancements		
	<i>Compustat Snapshot</i>	Introduced company-level Restricted Stock Units data in Compustat Snapshot , as a complement to our existing stock options and warrants coverage.
	<i>BECRS</i>	Enhanced the Business Entity Cross Reference Service (BECRS) with eight new Local Registry IDs and VAT IDs .
	<i>451 Research</i>	Launched the 451 Research Datacenter KnowledgeBase via Xpressfeed and Snowflake. This dataset provides datacenter location, services, and utilization data to support cloud services, ESG, energy, media, and critical infrastructure analysis.
	<i>ESG Scores</i>	Added approximately 5,900 additional S&P Global ESG Scores, bringing the total number of ESG scores available to approximately 8,000 companies. We are actively reaching out to companies, and giving them an opportunity to verify, support and supplement existing publicly reported information in our analysis.
	<i>SNL Fundamentals</i>	Added 47 new data items for Brazilian companies that have adopted the BR GAAP accounting change.
	<i>Panjiva Supply Intelligence</i>	Delivered 'All Years' Panjiva Supply Chain Intelligence packages for India.
October	<i>S&P Capital IQ Estimates</i>	Released new Industry Estimates Daily and Span packages with 12+ years of history and 24 distinct items spanning the banking, insurance, and REITs industries. We also expanded our Company Guidance offering with industry-specific Guidance data .
	<i>Preqin</i>	Enhanced our Preqin offering with Deals Cross Reference and Preqin Equity Relationships packages.
	<i>RatingsXpress (v4)</i>	Added Stand-Alone Credit Profile (SACP) data to the RatingsXpress (v4) service .
	<i>S&P CreditStats</i>	Introduced Incremental Lease Liability and Share Repurchases to the S&P CreditStats service.
	<i>SNL Bank Regulatory</i>	Added 23 new data items to our SNL Bank Regulatory Data offering as part of periodic updates for Q2 from the Federal Financial Institutions Examination Council (FFIEC).
	<i>S&P Global 1200 Index Enhancement</i>	Expanded our S&P Global 1200 Index coverage to include additional index-level data, licensed indices, and constituent data.
	<i>FTSE Index</i>	Expanded our FTSE Index content by adding historical index price data for approximately 170 FTSE/JSE Africa Index Series.
	<i>Panjiva Supply Intelligence</i>	Delivered 'All Years' Panjiva Supply Chain Intelligence packages for Costa Rica.
	<i>GICS Consultation</i>	S&P Dow Jones Indices and MSCI Inc. announced their consultation with members of the investment community on potential changes to the GICS structure in 2023. See the press release and the GICS Consultation document for full details .
November	<i>Textual Data Analytics</i>	Released new Textual Data Analytics metrics based on recent advancements in NLP theory and modeling.

Xpressfeed Enhancements		
	Trucost Physical Risk	Enhanced our Trucost Physical Risk offering with physical risk asset-level scoring data . The Trucost Physical Risk Asset Level data captures the relative exposure of a company's assets to climate hazards.
	Transactions	Added Development Capital and Exploration use of proceeds codes to the Transactions Offerings reference data in Xpressfeed and Snowflake. The new codes relate to transactions in the SNL Metals & Mining industry.
	S&P Global (China) Ratings	Issuer credit ratings from S&P Global (China) Ratings are now available in Xpressfeed. S&P Global (China) Ratings is a wholly owned subsidiary of S&P Global Ratings and the first wholly foreign-owned credit rating agency in the Chinese domestic market.
	Preqin	Released Preqin Private Equity Deals Exit and Tranche data for Private Debt (DB), Private Equity (PE), Infrastructure (INF), and Real Estate (RE) alternative asset classes.
	CreditPro	Released CreditPro Defaults and Ratings Transitions data (non-confidential only) for the Corporate sector in Xpressfeed. The Corporate sector data set is comprised of more than 15,000 corporate issuers rated by S&P Global Ratings across multiple industries.
December	S&P Capital IQ Estimates	Expanded our Detail Estimates offering with industry-specific detail estimates data for 24 distinct items within the industries of banking, insurance, and REITs.
	Preqin	Released Preqin Private Debt and Buyout Data .

Research, White Papers, Webinars	
Throughout the year, Data Management Solutions leaders and our Quantamental Research group shared unique insights through original research papers and webinars to help you make the most of our industry-leading datasets:	
<p>We released the on-demand webinar Delivering Value from Data: Preparing for the Fourth Industrial Revolution by Warren Breakstone, Managing Director & Chief Product Officer, S&P Global Market Intelligence; David Coluccio, Managing Director, S&P Global Market Intelligence; and Matt Aslett, Research Director, 451 Research.</p>	
<p>“Leadership Change That Matters: A Value and Momentum Story.” leverages S&P Global’s Alpha Factor Library and Compustat Point-in-Time Fundamentals to explore the rotation of markets between types of stocks when investment attributes fall in and out of favor.</p>	
<p>“Hiding in Plain Sight – Risks That Are Overlooked” In this report, Zack Yang and Temi Oyeniyi, CFA, of our Quantamental Research group, use three metrics—Minimum Edit Distance, Jaccard Similarity, and Cosine Similarity—to identify companies that made significant changes to the “Risk Factors” section of their filings. These metrics can serve as alpha signals or be used to quickly identify a pool of companies that require further investigation.</p>	
<p>In a new paper, “U.S. Filings: No News is Good News.” Frank Zhao of our Quantamental Research group advances the discussion on corporate filings by demonstrating that textual consistency in corporate filings is important as it may signal outperformance. S&P Global Market Intelligence’s U.S. Machine Readable Filings data constitutes the basis for this research.</p>	

Research, White Papers, Webinars

In "[Branching Out: Graph Theory Fundamentals](#)," the Quantamental Research group introduces the fundamentals of graph theory by modeling the relationships among members of the 112th U.S. Senate through their sponsorships of finance bills.

Experts from Quantamental Research discuss how to build a network of connected firms using sell-side analysts' coverage data, in this on-demand webinar "[The Value of Sell-Side Analyst Coverage Networks](#)."

The Quantamental Research group released a webinar on "[Speed Reading 10-K & 10-Q Company Filings](#)," based on our Machine Readable Filings data.

In this Quantamental Research paper, "[Technology Momentum: Peer Networks from Patents](#)," Ashish Rana, CFA, demonstrates how the analysis and comparison of patents help investors uncover portfolio overlaps in technology between companies from different sectors. Patent data by [IPgwy](#) through Xpressfeed forms the basis for this research.

In the Quantamental Research paper, "[The Board Matrix: The \(ESG\) Value of Well-Connected Directors](#)," Temi Oyeniyi, CFA, and Zack Yang examine the relationship between companies connected through shared board members and ESG performance. The [S&P Capital IQ Professionals](#) and the [S&P Global ESG Scores](#) datasets served as the basis for this research.

On demand webinar [Glass Floors and Ceilings: Why Closing the Median Wage Gap Isn't Fair](#). In the paper, Daniel J. Sandberg, PhD, DFA, Quantamental Research, demonstrates how comparing the median compensation for women to men ('Gender-Based Compensation Management') undermines the goal of equitable pay, arguing that, because the high end of the compensation range can be much farther from the median than the low end, comparing the median compensation for women to men is a net disadvantage for women.

["Standardizing, Structuring and Linking: Solving Alternative Data Challenges with S&P Global Marketplace"](#) by Jay Bhankharia, Senior Director, S&P Global Market Intelligence, and Laura Ieni, Director, S&P Global Market Intelligence.

[Using Environmental, Social, and Governance Data with Snowflake to Group Companies Based on Future Earnings Risk](#). Learn how you can use the Trucost Carbon Earnings at Risk data set via Snowflake to quantify carbon pricing risk with this replay of a session from the Snowflake Summit.

In the video [The Power of Trucost Earnings at Risk Data with the Marketplace Workbench](#), S&P Global Data Scientist, Ming Yu, demonstrates how you can use the Trucost Carbon Earnings at Risk dataset with the Marketplace Workbench to better understand which companies are most vulnerable to carbon pricing in order to quantify risk and financial impacts.

In the on-demand webinar [Streamlining Analytics for TCFD Reporting](#), specialists from S&P Global Market Intelligence and [S&P Global Sustainable1](#) discuss emerging Environmental, Social, and Governance (ESG) trends including what compulsory Taskforce on Climate-related Financial Disclosures (TCFD) reporting will mean for firms going forward.

Research, White Papers, Webinars

In the case study [“An Investment Manager Discovers an Efficient Way to Identify Valuable Data.”](#) the research team at a quantitative firm in Europe wanted to continually push the envelope and generate new ideas for the firm’s portfolio managers. For this to happen, they needed to access and analyze a wide variety of information. They realized that analyzing all this information would be an onerous task for a small firm. They also knew that S&P Global Market Intelligence was the innovative solution that would give them the data they needed.

[“Unlocking the Full Potential of Earnings Transcripts with Kensho NERD.”](#) Learn about the challenges of dealing with the growing volume of information in transcripts of company earnings as well as how to make transcript reviews easy and more insightful with Kensho Named Entity Recognition and Disambiguation on Transcripts (“NERD”), a cutting-edge machine-learning system that unlocks the full potential of textual data found in [S&P Global Market Intelligence’s Machine-Readable Transcripts.](#)

In the video [Stock Price Prediction Using China Sentiment Analytics and the Marketplace Workbench](#), Andrew Bovey, S&P Global Data Scientist, uses the China Sentiment Analytics dataset with the Marketplace Workbench to create textual sentiment indicators for stock price prediction in the Chinese market.

In the on-demand webinar [Machine Readable Filings for Actionable Insights with Databricks](#), S&P Global Product Management and Data Science teams collaborate with Databricks to create notebooks that leverage **S&P Global Textual Data** and **natural language processing (NLP)** to create value by learning the contextual meaning of words in company filings.

[S&P Global Quantamental Research: Natural Language Processing](#) In response to the growing availability of textual data, along with an increased interest in natural language processing (NLP), our S&P Global Quantamental Research team has compiled various research papers, with accompanying Python code, to provide tangible use cases for NLP and textual data to help you get started today on generating new ideas for your business.

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