LSEG Academy



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Data & Feeds, APAC

LSEG I/B/E/S, ESG on WRDS For NCCU

LSEG

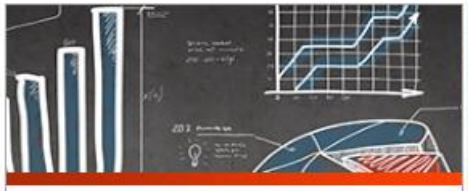
Subscriptions

Data Dashboard »

- » Contributed Data at WRDS 27
- » External Data Sources 76
- » LSEG 103
- » LSEG FTSE Russell 3
- » LSEG IBES 114
- » LSEG Mergent 6
- » Macro Finance Society 27
- » Thomson / Refinitiv

Analytics by WRDS

All Topics »



SEC Analytics Suite

Researchers will gain an overview of WRDS' powerful SEC research platform. Some key features they will learn about include:

- Access to 15 million filings from a single index
- Full-text searching over 3.5 million filings
- Sentiment analysis

More →



U.S. Daily Event Study

Investigate abnormal stock returns/volumes around event dates by uploading your own "events" file, or analyzing reaction to firm-specific events from Capital IQ's Key Development database.

- Instant visualization of the effect of events on U.S. equities
- Output includes statistics, plots

More →



Intraday Indicators

Stock specific daily and intraday (5 min, 15 min and 30 min) indicators created from the TAQ intraday dataset.

- Stock specific daily and intraday (5 min, 15 min and 30 min) indicators.
- Requires subscription to TAQ dataset.

More →

</> Coding Tool Kit

SAS Studio

About

R Studio

About

JupyterHub

About | Examples

WRDS News

11 SEP — October 3 | Rotman School of Management: Corporate Governance …
September 11th, 2025

17 JUL — Research on how countries' business rules shape economic success …
July 17th, 2025

Events

22 OCT — Financial Management Association (FMA) 2025
Vancouver, British Columbia, Canada

02 — IATUL (International Association of University

About LSEG Academy

- **Learn Anytime, Anywhere:** 600+ on demand courses
- **Instructor-Led Classes:** Interactive, multiple languages
- **Market Insights & Intelligence:** Experts deliver industry market and briefing sessions
- **Certifications:** Learn essential skills and receive foundational certifications

Visit the LEARNING CENTRE



Trade Compliance

Store all your trades, media chats with a fu Global Relay.



LSEG Data Library for Python



Data Analysis



Analytics: LSEG Yield Book



The Municipal Markets



Getting Started

Discover the available features, build your layout, and explore useful apps for Fixed Income users.

Start Learning →



Traders

VIDEO COURSE

Leverage LSEG Solutions for identifying trading opportunities in the market, access real time pricing, reliable & accurate news and utilize our trading capabilities.

Workspace • Continuous Learning • 87 min



Sales

VIDEO COURSE

Discover the LSEG Solution for Sales professionals to identify market trends, analyze valuable insights, facilitate trades, and manage relationships effectively.

Workspace • Continuous Learning • 79 min



Middle and Back Office

VIDEO COURSE

Learn more about how LSEG supports Middle and Back Office functions to effectively manage business transactions and minimize business risks.

Workspace • Continuous Learning • 15 min



Risk Manager

VIDEO COURSE

Access the data and insights you need to monitor credit and market risk.

Workspace • Continuous Learning • 44 min

LSEG Academy

CORPORATE

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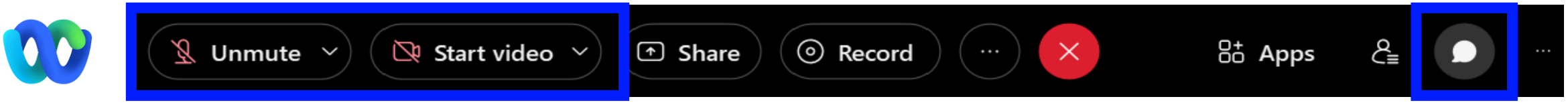
Session Guidance

This session is being recorded for replay

- **Ask** Questions via the Chat
- **Mute** Microphone
- **Turn Off** Camera



LSEG Academy

LSEG I/B/E/S

1. LSEG Datasets on WRDS
2. Brief of LSEG I/B/E/S
3. Web Query LSEG I/B/E/S in WRDS
4. SQL Query for LSEG I/B/E/S via WRDS JupyterLab



LSEG Datasets on WRDS

London Stock Exchange Group(LSEG)

- Financial markets infrastructure and data provider
- 40,000+ institutions
- 190 countries
- Data and insights, Trading Platforms, Open data and technology platforms
- Trading, Investment, Wealth Management, Market Data Management, Risk & Compliance

LSEG

Company History

REFINITIV

1850 – Pigeon

Paul Julius Reuter used carrier pigeons and the new Calais-Dover cable to transmit stock market quotations

1858 – Cable

Cable from GB to U.S. laid, enabling Reuters to expand its expertise in global currency exchange

1865 – Telegraph

Reuters first to report President Lincoln assassination by telegraphing news to London

1964 – StockMaster

Market prices carried from New York to London for delivery around Europe on Stockmaster machines

1973 – Monitor

Monitor Money Rates Service launches, creating the first electronic marketplace for FX

1989 – Dealing 2000

enabling automated communication between traders and their back office

1999 – Reuters 3000Xtra

Gives live prices from global stock, commodity, futures, derivative and bond markets as well as FX price makers

2007 – THOMSON REUTERS

Thomson and Reuters combined to form Thomson Reuters

2010~2017 – Eikon, Elektron, Eikon App Stuio, Elektron Data Platform, Open Cloud

2018 – REFINITIV

Formation

2019 – Refinitiv Data Platform

2020 – Refinitiv Workspace

LSEG

- Data & Analytics
- FTSE Russell
- London Stock Exchange
- FX
- Post Trade
- Risk Intelligence

London Stock Exchange Group

1698

At Jonathan's Coffee House, John Castaing begins issuing a list of stock and commodity prices called 'The Course of the Exchange and other things

1801

The first regulated modern exchange comes into existence, **London Stock Exchange**

1986

The UK market is deregulated in the 'Big Bang'.

1995

AIM, LSE's Alternative Investment Market, is founded

2001

LSE became a public company

2007

LSE merged with **Milan Stock Exchange** to create **London Stock Exchange Group**

2009

LSEG completes the purchase of a majority stake of **Turquoise**

2010

LSEG acquired **MillenniumIT**

2013

LSEG completes the purchase of a majority stake in **LCH Group**

2014

LSEG completes the acquisition of **Frank Russell** Company

2015

FTSE and Russell Indexes come together as **FTSE Russell**

2017

LSEG completes the acquisition of **Mergent, Yield Book** and **Citi Fixed Income Indices**

2019

LSEG acquires **Beyond Ratings**

LSEG Content to Power Academic Research

I/B/E/S, Worldscope, Datastream, Lipper, StarMine, SDC, DealScan, FTSE, Dun & Bradstreet, Mergent

Estimates

- I/B/E/S Estimates
- I/B/E/S Guidance
- I/B/E/S Global Aggregates
- I/B/E/S KPI

Financials

- LSEG Financials

Ownership

- Global Ownership Holdings
- Institutional Holdings (13F)
- Mutual Fund Holdings
- Insider Filings

Deals

- SDC Mergers & Acquisitions
- SDC New Issues
- Dealscan

Economics

- LSEG Datastream

Funds

- LSEG Lipper Hedge Fund (TASS)

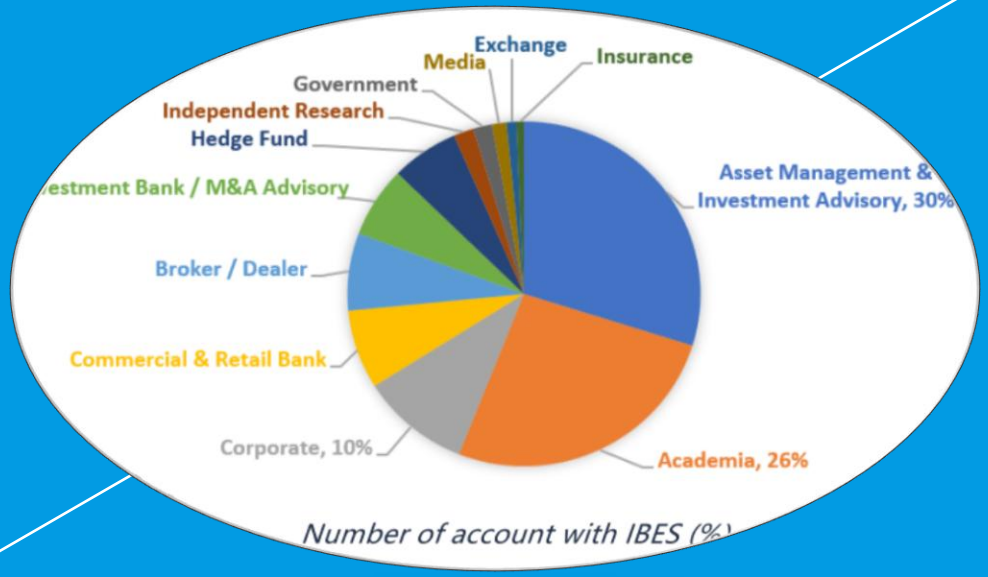
Pricings

- LSEG Datastream
  - ❑ Equities
  - ❑ Commodities
  - ❑ Futures
  - ❑ Options

ESG

LSEG ESG

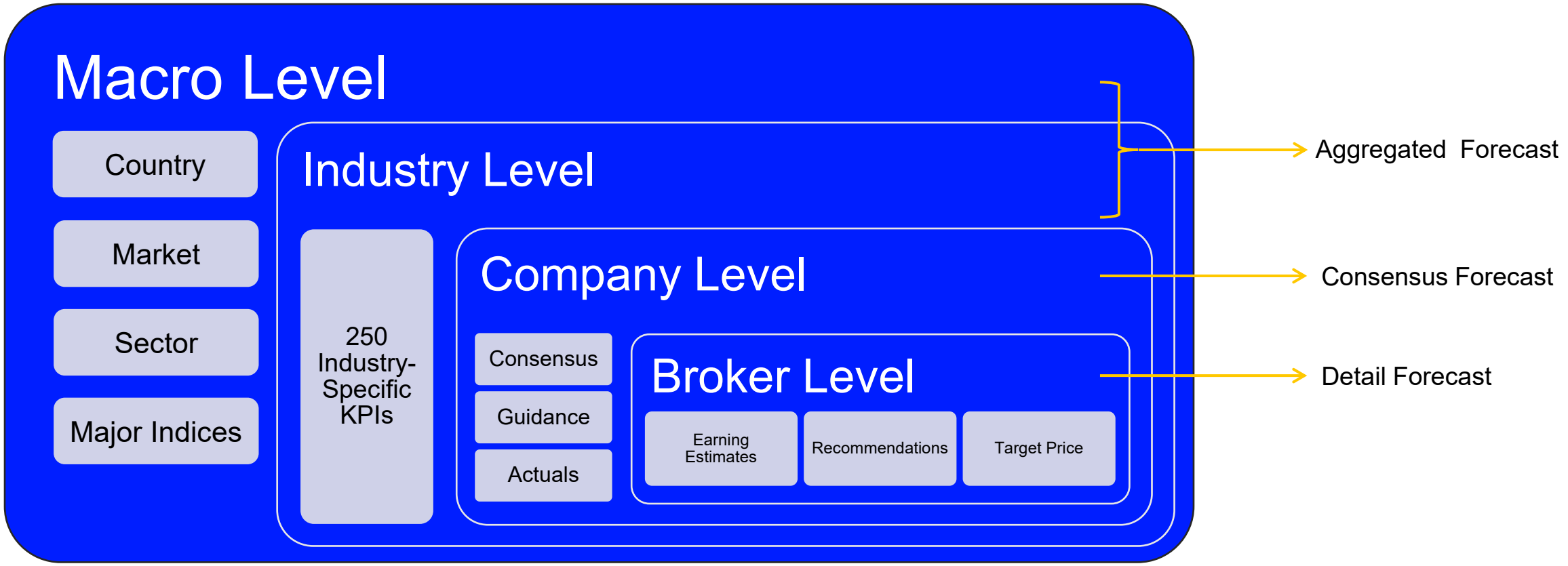
Brief of LSEG I/B/E/S



- Institutional Brokers Estimate System
- 23,000+ active companies in 90 countries
- 950+ brokers
- 20+ measures, Recommendation, Target Price
- Estimate Details, Aggregation, Guidance, KPI
- Back to 1976

LSEG

I/B/E/S – Institutional Brokers' Estimate System



Key Forecast Measures

- Earnings Per Share (EPS)
- Book Value Per Share (BPS)
- Cash Flow Per Share (CPS)
- Capital Expenditure (Non per share, CPX)
- Cash Earnings Per Share (CSH)
- Dividend Per Share (DPS)
- Earnings Per Share - Before Goodwill (EBG)
- EBIT (Non-Per Share, EBI)
- EBITDA Per Share (EBS)
- EBITDA (Non-Per Share, EBT)
- Enterprise Value (Non-Per Share, ENT)
- Earnings Per Share - Alternate (EPX)
- Funds From Operations Per Share (FFO)
- GAAP/EPS - Fully Reported (GPS)
- Gross Margin (Percent, GRM)
- Net Asset Value (Non-Per Share, NAV)
- Net Asset Value (Non-Per Share, NAV)
- Net Debt (NDT)
- Net Income (Non-Per Share, NET)
- Operating Profit (Non-Per Share, OPR)
- Pre-tax Profit (Non-Per Share, PRE)
- Return on Assets (Percent, ROA)
- Return on Equity (Percent, ROE)
- Revenue (Non-Per Share, SAL)

Terms of Estimates

Who

- **Estimator**: Sell-side institution or contributor. In the past, I/B/E/S used 'Broker'.
- **Analyst**: Person at the sell-side institution or contributing analyst who makes the forecast.

What

- **Estimate**: A prediction from the analyst about future earnings or another measure for a specific issue/entity and time period.
- **Detailed Estimate**: Analyst-by-analyst estimates.
- **Consensus** (**Summary) Estimate**: The average of all(subjects to I/B/E/S exclusion rules) estimates, from all analysts, for a given issue and time period.
- **Actual**: The reported value by the company of earnings or another measure for a specific issue/entity and time period; to be compared against the estimate.
- **Measure**: The metric for which the estimate is made. **Earnings per share is the most popular measure**.

When

- **Announce Date**(**ANNDATS**) is the date that the forecast/actual was reported.
- **Activation Date**(**ACTDATS**) is the date that the forecast/actual was recorded by LSEG.
- **Forecast Period End Date** (**FPEDATS**) is the date to which the estimate applies. For 70% of the companies, an estimate for a particular fiscal year will have an FPEDATS of December 31st of that year.

I/B/E/S Typical Use Cases in Financial Markets

1. Post-Earnings Announcement Drift (PEAD)

Definition: PEAD refers to the tendency of a stock's abnormal returns to drift in the direction of an earnings surprise for weeks after the earnings announcement.

Application: Investors use I/B/E/S data to calculate **Standardized Unexpected Earnings (SUE)** and build portfolios that exploit this drift.

Example: A WRDS-based study showed that S&P 500 and S&P 600 firms with high SUE scores outperformed peers for up to 50 days post-announcement.



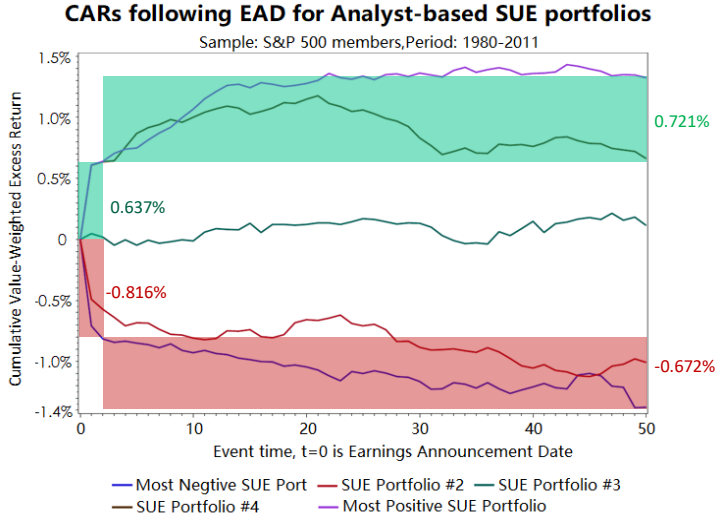
2. Stock Valuation & Price Movement

Impact: Stocks often rise when earnings beat estimates and fall when they miss. This is known as the **earnings surprise effect**.

Strategy: Traders monitor consensus estimates to anticipate price reactions and adjust positions accordingly.

3. Market Sentiment & Investor Behavior

Use Case: Earnings estimates shape investor expectations and influence sentiment. Companies often "sandbag" guidance to beat expectations and boost stock prices.



4. Quantitative Modeling & AI Integration

Use Case: Earnings estimates are used in machine learning models to predict stock returns, credit defaults, and M&A targets.

Tools: Models combine structured data (e.g., EPS, revenue) with unstructured sources (e.g., transcripts, news) for predictive analytics.

5. Sector & Industry Analysis

Use Case: Aggregated earnings estimates help analysts compare performance across sectors and regions.

Example: WRDS offers **Global Aggregates** and **KPIs** for industry-specific metrics like same-store sales or refining capacity.

6. Risk Management & Portfolio Construction

Use Case: Earnings forecasts are used to assess valuation risk, build factor models, and manage exposure to earnings volatility.

Example: Analysts use Workspace's "Estimate Summary" and "EARN" app to monitor earnings surprises by sector or country.

Application of I/B/E/S from LSEG – Predicted Surprise



Web Query LSEG I/B/E/S in WRDS

Manual and Overview of I/B/E/S

LSEG

LSEG IBES

IBES International Inc. created its Academic Research Program over 30 years ago to provide summary and individual analyst forecasts of company earnings, cash flows, and other important financial items, as well as buy-sell-hold recommendations. In 2000, IBES was integrated with Thomson Reuters (now LSEG) / First Call, and in 2012, First Call was discontinued.

LSEG

More About This Vendor »

Detail and Consensus Forecast

LSEG IBES Academic

Analyst Estimates | Global

Detail Estimates (analyst by analyst), Summary Estimates (consensus), analyst Recommendations, along with actuals

- » Detail History 10
- » Information 4
- » Recommendations 5
- » Summary History 9
- » Unadjusted Detail 6
- » Unadjusted Summary 5

Aggregated Forecast

LSEG IBES Global Aggregates

Analyst Estimates | Global

Actuals and estimates aggregated at the industry, sector, index, country, and regional levels

- » Global Aggregates 2

LSEG IBES Guidance

Analyst Estimates | Global

Estimates from a company about its own performance. Useful for comparing how the company sees itself against the views of the market

- » Detail History 4

LSEG IBES KPI

Analyst Estimates | Segments / Industry Data | Global

Filter by Concept / Region (show)

Knowledge Base »

- » Date Variables in Ibes
- » Estimator and Analyst Codes in Estimate and Recommendation Data

Manuals and Overviews »

- » WRDS Overview of IBES
- » IBES Detail History User Guide - December 2016

LSEG IBES Academic

Detail Estimates (analyst by analyst), Summary Estimates (consensus), analyst Recommendations, along with actuals

Detail History

Analyst Estimates | Global

Detail History

- » Actuals
- » Adjustments
- » Detail
- » Detail - Excluded Estimates
- » Identifier
- » Price Target
- » Restated Actuals
- » Stop Price Target
- » Stopped Estimate

Information

Analyst Estimates | Global

Information

- » Daily Exchange Rate
- » EURO Exchange Rate
- » Monthly Exchange Rate
- » Report Currency

Recommendations

Analyst Estimates | Global

Recommendations

- » Detail
- » Detail Identification
- » Stopped Recommendations
- » Summary Identification
- » Summary Statistics (Consensus Recommendati…

Summary History

Analyst Estimates | Global

Summary History

- » Actuals, Pricing and Ancillary
- » Adjustment Factors
- » Company Identification
- » Company Level Footnote
- » Price Target
- » Secondary Revision Momentum
- » Summary Statistics
- » Summary Statistics (2nd Mean)
- » Surprise History

Unadjusted Detail

Analyst Estimates | Global

Unadjusted Detail

- » Actuals
- » Excluded Estimates
- » History
- » Price Target
- » Restated Actuals
- » Stopped Estimate

Unadjusted Summary

Analyst Estimates | Global

Unadjusted Summary

- » Actuals, Pricing and Ancillary
- » Price Target
- » Summary Statistics
- » Summary Statistics (2nd Mean)
- » Surprise History

Detail History - Detail File with Actuals

Query Form | Variable Descriptions | Manuals and Overviews | Knowledge Base | Data Preview

Detail History - Detail File with Actuals

Product:	tr_ibes
Library:	ibes
File:	det
Date Range:	(anndats) Announce Date, SAS Format: 1970-01-01 - 2025-05-15
Date Range:	(revdats) Review Date, SAS Format: 1970-01-01 - 2046-07-06
Date Range:	(actdats) Activation Date, SAS Format: 1970-01-01 - 2025-05-1
Date Range:	(fpedats) Forecast Period End Date, SAS Format: 1980-03-31
Last Updated On:	2025-06-13
Update Frequency:	Quarterly

Detail Estimate is the core of the Detail History product. This file contains analyst-by-an for annual, quarterly, semi-annual and long terms growth periods.Quarterly estimates a growth forecasts are most prominent for US and Canadian companies. Semi-annual es available for Japanese companies.

It is possible for a contributing broker to provide multiple revisions to an estimate on the scenario, all estimates are available in the Detail history files and only the most current the mean.

In the non-US files, for estimates received on a Parent-company basis a "P" appears in file. If an estimate was received on a Consolidated-company basis then an indicator is field CURRFL. In the US file, if the Canadian Currency field CURRFL is C, the estimate currency. If the indicator is not present, the estimate is in US Dollars.

The Currency field (CURR) and the Primary/Diluted Flag (PDF) in this file are Estimate against the data, it is important not to confuse these fields with the Currency field in the

Step 1: Choose your date range.

The Forecast Period End Date is the ending month and year of the
Activation Date is the date that the forecast/actual was recorded b
date that the forecast/actual was reported. The Review Date is Mo
accurate. Note that for Long Term Growth estimates, you must NO
Variable in Step One or the query will not return any estimates.

Date Variable:

(anndats) Announce Date, SAS Format

2020-01 to 202

Step 2: Apply your company codes.

Using Ticker Symbols and CUSIPs in I/B/E/S Queries

You can further refine the search by selecting values for the IBES Universe (U.S. and/or International files), IBES Measure (e.g., EPS) and Forecast Period Indicator (FPI).

Note that for FPI = 0 (Long-Term Growth) estimates, you must NOT select "Forecast Period End Date" as the Date Variable in Step One or the query will not return any results (for FPI = 0).

What variable would you like to search by?

Autocomplete
- Official Ticker
- I/B/E/S Ticker
- CUSIP (8-digit)

Select an option for entering your company codes:

Search Name or Ticker

Code List Name

Please enter company codes separated by a space.
Example: IBM MSFT AAPL
[Code Lookup: LSEG IBES]

Save this code list to Saved Codes

---------Select Saved Codes List---------

Choose from your saved code lists.

Browse... Company Codes Upload File

Choose File & Measures

- US File
- International File
- Both

Measures (non-EPS may be sparse)

- [x] Earnings Per Share (EPS)
- [ ] Book Value Per Share (BPS)
- [ ] Cash Flow Per Share (CPS)
- [ ] Capital Expenditure (Non per share,CPX)
- [ ] Cash Earnings Per Share (CSH)
- [ ] Dividend Per Share (DPS)
- [ ] Earnings Per Share - Before Goodwill (EBG)
- [ ] EBIT (Non Per Share, EBI)
- [ ] EBITDA Per Share (EBS)
- [ ] EBITDA (Non Per Share, EBT)
- [ ] Enterprise Value (Non Per Share, ENT)
- [ ] Earnings Per Share - Alternate (EPX)
- [ ] Funds From Operations Per Share (FFO)
- [ ] GAAP/Earnings Per Share - Fully Reported (GPS)
- [ ] Gross Margin (Percent, GRM)
- [ ] Net Asset Value (Non Per Share, NAV)
- [ ] Net Debt (NDT)
- [ ] Net Income (Non Per Share, NET)
- [ ] Operating Profit (Non Per Share, OPR)
- [ ] Pre-tax Profit (Non Per Share, PRE)
- [ ] Return on Assets (Percent,ROA)
- [ ] Return on Equity (Percent, ROE)
- [ ] Revenue (Non Per Share, SAL)

Forecast Period Indicator (FPI)

- [x] Fiscal Year 1 (1)
- [ ] Fiscal Year 2 (2)
- [ ] Fiscal Year 3 (3)
- [ ] Fiscal Year 4 (4)
- [ ] Fiscal Year 5 (5)
- [ ] Fiscal Year 6 (E)
- [ ] Fiscal Year 7 (F)
- [ ] Fiscal Year 8 (G)
- [ ] Fiscal Year 9 (H)
- [ ] Fiscal Year 10 (I)
- [ ] Fiscal year without an actual (U)
- [ ] Fiscal year > 10 years in the future (X)
- [ ] Quarter 1 (6)
- [ ] Quarter 2 (7)
- [ ] Quarter 3 (8)
- [ ] Quarter 4 (9)
- [ ] Quarter 5 (N)
- [ ] Quarter 6 (O)
- [ ] Quarter 7 (P)
- [ ] Quarter 8 (Q)
- [ ] Quarter 9 (R)
- [ ] Quarter 10 (S)
- [ ] Quarter 11 (T)
- [ ] Quarter 12 (L)
- [ ] Quarter > 12 quarters in the future (Y)
- [ ] Semiannual 1 (A)
- [ ] Semiannual 2 (B)
- [ ] Semiannual 3 (C)
- [ ] Semiannual 4 (D)
- [ ] Semiannual 5 (J)
- [ ] Semiannual 6 (K)
- [ ] Semi-annual without an actual or > 6 semi-a
- [ ] Long-Term Growth (0)

Choose Period

- 10 FY
- 12 FQ
- 6 Semi Annual

Step 3: Choose query variables.

How does this work?

Search All 0/25 | Identifying Information 0/4 | Other Variables 0/21

Select All | Selected Clear All (0)

Search All

- (oftic) Official Ticker
- (ticker) I/B/E/S Ticker
- (cusip) CUSIP (8-digit)
- (cname) Company Name
- (fpedats) Forecast Period End Date, SAS Format
- (actdats) Activation Date, SAS Format
- (acttims) Activation Time, SAS Format
- (revdats) Review Date, SAS Format
- (revtims) Review Time, SAS Format
- (anndats) Announce Date, SAS Format

Step 4: Select query output.

How does this work?

Select the desired format of the output file. For large data requests, select a compression type to expedite downloads. If you enter your email address, you will receive an email that contains a URL to the output file when the data request is finished processing.

Output Format
- comma-delimited text (*.csv)
- Excel spreadsheet (*.xlsx)
- tab-delimited text (*.txt)
- HTML table (*.htm)
- SAS Windows_64 dataset (*.sas7bdat)
- STATA file (*.dta)

Compression Type
- Uncompressed
- zip (*.zip)
- gzip (*.gz)

Date Format
- YYYY-MM-DD. (e.g. 1984-07-25)
- MM/DD/YYYY. (e.g. 07/25/1984)
- DD/MM/YYYY. (e.g. 25/07/1984)
- YYYYMMDD. (e.g. 19840725)

E-Mail Address *(Optional)*: frank.ling@lseg.com Edit Preferences

Custom Field *(Optional)*: Custom Field

Save This Query *(Optional)*: Saved Query Name

Notes on this Query *(Optional)*: Saved Query Notes

Submit Form

Sample Result

Detailed Annual EPS Estimates on AAPL from various brokers(Analysts)

Company Code & Name | Value & Attributes of Estimates | Date & Time of Estimates | Value, Date, Time, Currency of Actuals

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA
1	IBES Ticker Symbol	CUSIP/SEDOL	Official Ticker Symbol	Company Name	Contributing estimator code	Analyst Code	Canadian Currency Flag (Estimate Level)	Primary/Diluted Flag (Estimate Level)	Forecast Period Indicator	Measure (Data Type Indicator)	Estimate Value	Currency	USFIRM=0 if from .INT file and USFIRM=1 if from .US file	Forecast Period End Date, SAS Format	Activation Date, SAS Format	Activation Time, SAS Format	Announce Date, SAS Format	Announce time, SAS Format	Review Date, SAS Format	Review Time, SAS Format	Actual Value, from the Detail Actuals File	Activation date of the Actual, from the Actuals File	Activation time of the Actual, from the Actuals File	Announce date of the Actual, from the Actuals File	Announce time of the Actual, from the Actuals File	Currency from the Detail Actuals file	Report Currency
2	AAPL	03783310	AAPL	APPLE	454	133463		D	1	EPS	3.3675		1	9/30/2020	1/2/2020	21:21	1/2/2020	8:17	1/2/2020	21:21	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
3	AAPL	03783310	AAPL	APPLE	1267	193808		D	1	EPS	3.42		1	9/30/2020	1/3/2020	9:02	1/3/2020	0:49	1/27/2020	0:56	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
4	AAPL	03783310	AAPL	APPLE	3374	110208		D	1	EPS	3.36		1	9/30/2020	1/5/2020	18:03	1/5/2020	12:10	1/27/2020	13:05	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
5	AAPL	03783310	AAPL	APPLE	29	58377		D	1	EPS	3.3		1	9/30/2020	1/6/2020	6:55	1/5/2020	22:08	1/23/2020	22:47	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
6	AAPL	03783310	AAPL	APPLE	930	191412		D	1	EPS	3.4875		1	9/30/2020	1/9/2020	8:34	1/9/2020	7:00	1/9/2020	8:34	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
7	AAPL	03783310	AAPL	APPLE	2301	83036		D	1	EPS	3.3925		1	9/30/2020	1/9/2020	15:43	1/9/2020	13:00	1/14/2020	0:01	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
8	AAPL	03783310	AAPL	APPLE	79	108299		D	1	EPS	3.0875		1	9/30/2020	1/13/2020	13:43	1/13/2020	6:34	1/21/2020	7:00	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
9	AAPL	03783310	AAPL	APPLE	2830	105094		D	1	EPS	3.3625		1	9/30/2020	1/14/2020	11:58	1/14/2020	9:02	1/14/2020	11:58	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
10	AAPL	03783310	AAPL	APPLE	2502	125796		D	1	EPS	3.35		1	9/30/2020	1/14/2020	8:18	1/14/2020	3:55	1/14/2020	8:18	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
11	AAPL	03783310	AAPL	APPLE	1951	107846		D	1	EPS	3.3625		1	9/30/2020	1/15/2020	5:33	1/15/2020	4:40	1/15/2020	5:33	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
12	AAPL	03783310	AAPL	APPLE	192	86702		D	1	EPS	3.125		1	9/30/2020	1/17/2020	0:00	1/16/2020	23:17	1/17/2020	0:00	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
13	AAPL	03783310	AAPL	APPLE	2334	56181		D	1	EPS	3.305		1	9/30/2020	1/21/2020	13:17	1/21/2020	9:31	1/28/2020	16:55	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
14	AAPL	03783310	AAPL	APPLE	183	125669		D	1	EPS	3.3475		1	9/30/2020	1/23/2020	0:32	1/23/2020	0:09	1/23/2020	0:32	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
15	AAPL	03783310	AAPL	APPLE	157	192858		D	1	EPS	3.315		1	9/30/2020	1/26/2020	20:08	1/26/2020	17:09	1/26/2020	20:08	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
16	AAPL	03783310	AAPL	APPLE	873	153096		D	1	EPS	3.33		1	9/30/2020	1/27/2020	4:08	1/27/2020	0:18	1/27/2020	4:08	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
17	AAPL	03783310	AAPL	APPLE	171	113333		D	1	EPS	3.351		1	9/30/2020	1/28/2020	20:17	1/28/2020	19:51	1/28/2020	20:17	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
18	AAPL	03783310	AAPL	APPLE	98	136753		D	1	EPS	3.4032		1	9/30/2020	1/28/2020	22:49	1/28/2020	20:55	1/28/2020	22:49	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
19	AAPL	03783310	AAPL	APPLE	2334	56181		D	1	EPS	3.38		1	9/30/2020	1/28/2020	23:28	1/28/2020	21:10	2/21/2020	13:37	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
20	AAPL	03783310	AAPL	APPLE	3322	183383		D	1	EPS	3.4975		1	9/30/2020	1/28/2020	23:36	1/28/2020	21:23	3/9/2020	20:06	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
21	AAPL	03783310	AAPL	APPLE	1951	107846		D	1	EPS	3.4575		1	9/30/2020	1/29/2020	5:43	1/28/2020	23:13	1/29/2020	5:43	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
22	AAPL	03783310	AAPL	APPLE	873	153096		D	1	EPS	3.5		1	9/30/2020	1/29/2020	3:24	1/28/2020	23:29	1/29/2020	3:24	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
23	AAPL	03783310	AAPL	APPLE	282	108607		D	1	EPS	3.525		1	9/30/2020	1/29/2020	5:57	1/28/2020	22:40	1/29/2020	5:57	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
24	AAPL	03783310	AAPL	APPLE	228	81187		D	1	EPS	3.5925		1	9/30/2020	1/29/2020	6:26	1/28/2020	22:40	2/18/2020	4:45	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
25	AAPL	03783310	AAPL	APPLE	3374	110208		D	1	EPS	3.465		1	9/30/2020	1/29/2020	2:38	1/28/2020	19:28	3/2/2020	16:50	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
26	AAPL	03783310	AAPL	APPLE	4331	82561		D	1	EPS	3.515		1	9/30/2020	1/29/2020	5:34	1/29/2020	2:09	1/29/2020	5:34	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
27	AAPL	03783310	AAPL	APPLE	4235	127727		D	1	EPS	3.4725		1	9/30/2020	1/29/2020	6:38	1/29/2020	5:18	1/29/2020	6:38	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
28	AAPL	03783310	AAPL	APPLE	4201	119509		D	1	EPS	3.3775		1	9/30/2020	1/29/2020	6:08	1/29/2020	5:50	1/29/2020	6:08	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
29	AAPL	03783310	AAPL	APPLE	3037	49552		D	1	EPS	3.5275		1	9/30/2020	1/29/2020	6:06	1/29/2020	6:05	1/29/2020	6:06	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
30	AAPL	03783310	AAPL	APPLE	2830	105094		D	1	EPS	3.49		1	9/30/2020	1/29/2020	10:37	1/29/2020	9:56	1/29/2020	10:37	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
31	AAPL	03783310	AAPL	APPLE	2502	125796		D	1	EPS	3.53		1	9/30/2020	1/29/2020	9:05	1/29/2020	4:23	1/29/2020	9:05	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
32	AAPL	03783310	AAPL	APPLE	220	114459		D	1	EPS	3.4575		1	9/30/2020	1/29/2020	4:40	1/29/2020	3:23	1/29/2020	4:40	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
33	AAPL	03783310	AAPL	APPLE	1267	193808		D	1	EPS	3.54		1	9/30/2020	1/29/2020	4:52	1/29/2020	0:55	1/29/2020	4:52	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD
34	AAPL	03783310	AAPL	APPLE	930	191412		D	1	EPS	3.5375		1	9/30/2020	1/29/2020	8:41	1/29/2020	7:45	1/29/2020	8:41	3.28	10/29/2020	16:47	10/29/2020	16:32	USD	USD

SQL Query for LSEG I/B/E/S via WRDS JupyterLab

LSEG

Python: From the Web (JupyterHub)

Learn how to access WRDS data from JupyterHub with Python from the WRDS website

JupyterHub at WRDS

Open JupyterHub

Example Research Applications in JupyterHub

Top of Section

Introduction to JupyterHub Python

Jupyter is a vibrant, active open source project with lots of information online. See the JupyterLab site for getting started and how to use it: Jupyter documentation

This documentation uses several related but different terms:

- JupyterHub: "A multi-user version of the notebook designed for companies, classrooms and research labs." JupyterHub is the page you login to which creates your notebooks on WRDS Cloud.
- JupyterLab: "JupyterLab is the next-generation web-based user interface for Project Jupyter." This is main web application where you write your code and execute notebooks.
- Jupyter Notebook: "The Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text." JupyterLab is your notebook on WRDS Cloud.
- Project Jupyter: The open source project behind JupyterHub, JupyterLab, and Jupyter Notebook.

Top of Section

Fetching Data

Python is a widely-used high-level programming language that is both powerful and easy to use, and is proving to be a major player in large-scale data analytics applications.

WRDS provides a direct interface for Python access, allowing native querying of WRDS data right within your Python program. Most WRDS data is stored in a PostgreSQL database, and is available through Python via our in-house Python module, **wrds**, which is freely available on PyPI via a `pip install`.

Some data is only available through SAS. This data can be exported from SAS into a Python-compatible file format such as CSV and imported into Python.

Here is an example of a simple query against the Dow Jones Averages & Total Return Indexes using the **wrds**

More About This Vendor »

Filter by Concept / Region (show)

Knowledge Base »

» Date Variables in Ibes

» Estimator and Analyst Codes in Estimate and Recommendation Data

Manuals and Overviews »

» WRDS Overview of IBES

» IBES Detail History User Guide - December 2016

Python Script of SQL Query for LSEG I/B/E/S

LSEG I/B/E/S Libraries

Import wrds Libarary and Authenticate

```
import wrds
db = wrds.Connection()
```

```
Loading library list...
Done
```

Available LSEG Libraries on WRDS

```
db.list_libraries()      # list of your subscription
```

```
...
```

```
[n for n in db.list_libraries() if "tr_ibes" in n]  # Python list Comprehension
```

```
['tr_ibes',
 'tr_ibes_corporate',
 'tr_ibes_guidance',
 'tr_ibes_iga',
 'tr_ibeskpi']
```

Available Tables of LSEG I/B/E/S Academic library("tr_ibes")

```
db.list_tables(library="tr_ibes")
```

```
['act_epsint',
 'act_epsus',
 'act_xepsint',
 'act_xepsus',
 'actg',
 'actgu',
 'actpsum_epsint',
 'actpsum_epsus',
 'actpsum_xepsint',
 'actpsum_xepsus',
 'actpsumu_epsint',
 'actpsumu_epsus',
 'actpsumu_xepsint',
 'actpsumu_xepsus',
 'actu_epsint',
 'actu_epsus',
 'actu_xepsint',
 'actu_xepsus',
```

Key tables of “tr_ibes”

Measures	US File	Non-US File
EPS details EPS consensus	**det_epsus** **statsum_epsus**	**det_epsint** **statsum_epsint**
Non-EPS details Non-EPS consensus	**det_xepsus,** **statsum_xepsus**	**det_xepsint,** **statsum_xepsint**
Recommendation details/consensus	**recddet, recdsum**	
Target Price details/consensus	**ptgdet, ptgsum**	

Python Script of SQL Query for LSEG I/B/E/S

```
import pandas as pd
df = pd.DataFrame()
for each in db.list_tables(library="tr_ibes"):
    data = db.describe_table(library="tr_ibes", table=each)
    data.index = data['name']
    data_tmp = data[['name', 'comment']]
    data_tmp.columns = [each, 'comment']
    df = pd.concat([df, data_tmp[each]], axis=1)
df
```

# of records in each table

```
Approximately 3341870 rows in tr_ibes.act_epsint.
Approximately 1296179 rows in tr_ibes.act_epsus.
Approximately 53605412 rows in tr_ibes.act_xepsint.
Approximately 13849129 rows in tr_ibes.act_xepsus.
Approximately 62159 rows in tr_ibes.actg.
Approximately 17983 rows in tr_ibes.actgu.
Approximately 5364049 rows in tr_ibes.actpsum_epsint.
Approximately 2384405 rows in tr_ibes.actpsum_epsus.
Approximately 49230060 rows in tr_ibes.actpsum_xepsint.
Approximately 14565716 rows in tr_ibes.actpsum_xepsus.
Approximately 5364049 rows in tr_ibes.actpsumu_epsint.
Approximately 2384405 rows in tr_ibes.actpsumu_epsus.
Approximately 14007002 rows in tr_ibes.actpsumu_xepsint.
......
```

```
df.transpose().count()
```

ticker	163
cusip	152
oftic	156
cname	152
pends	40
...	
end_time	1
update_date	1
update_time	1
trbc_short_desc	1
trbc_long_desc	1

Primary Keys: Ticker, cusip, oftic

	act_epsint	act_epsus	act_xepsint	act_xepsus	actg	actgu	actpsum_epsint	actpsum_epsus	actpsum_xepsint	actpsum_xepsus	...	stopptg	stopsecd_sepint	stopsecd_xsepint	stopu_epsint	stopu_epsus	stopu_xepsint	stopu_xepsus	surpsum	surpsumu	trbc
ticker	ticker	ticker	ticker	ticker	ticker	ticker	ticker	ticker	ticker	ticker	...	ticker	ticker	ticker	ticker	ticker	ticker	ticker	ticker	ticker	ticker
cusip	cusip	cusip	cusip	cusip	cusip	cusip	cusip	cusip	cusip	cusip	...	cusip	cusip	cusip	cusip	cusip	cusip	cusip	NaN	NaN	NaN
oftic	oftic	oftic	oftic	oftic	oftic	oftic	oftic	oftic	oftic	oftic	...	oftic	oftic	oftic	oftic	oftic	oftic	oftic	oftic	oftic	NaN
cname	cname	cname	cname	cname	cname	cname	cname	cname	cname	cname	...	cname	cname	cname	cname	cname	cname	cname	NaN	NaN	NaN
pends	pends	pends	pends	pends	pends	pends	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
end_time	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	...	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	end_time

Python Script of SQL Query for LSEG I/B/E/S

Detailed Annual EPS Estimates for AAPL from Multiple Brokers(Analysts)

```
db.raw_sql(
    """
    select ticker, estimator, analys, fpi,measure, fpedats,anndats, anntims, actdats, acttims, value, actual, actdats_act
    from tr_ibes.det_epsus
    where ticker='AAPL' and fpedats='2020-09-30' and anndats>'2020-01-01' and fpi='1'
    """
)
```

BASIC SQL SYNTAX

SELECT fields
FROM library.table
WHERE conditions

	ticker	estimator	analys	fpi	measure	fpedats	anndats	anntims	actdats	acttims	value	actual	actdats_act
0	AAPL	454.0	133463.0	1	EPS	2020-09-30	2020-01-02	08:17:00	2020-01-02	21:21:23	3.3675	3.28	2020-10-29
1	AAPL	1267.0	193808.0	1	EPS	2020-09-30	2020-01-03	00:49:00	2020-01-03	09:02:31	3.42	3.28	2020-10-29
2	AAPL	3374.0	110208.0	1	EPS	2020-09-30	2020-01-05	12:10:00	2020-01-05	18:03:02	3.36	3.28	2020-10-29
3	AAPL	29.0	58377.0	1	EPS	2020-09-30	2020-01-05	22:08:00	2020-01-06	06:55:40	3.3	3.28	2020-10-29
4	AAPL	930.0	191412.0	1	EPS	2020-09-30	2020-01-09	07:00:00	2020-01-09	08:34:16	3.4875	3.28	2020-10-29
...	...	...	...	...	...	...	...	...	...	...	...	...	...
229	AAPL	192.0	86702.0	1	EPS	2020-09-30	2020-10-21	19:24:00	2020-10-21	19:27:23	3.16	3.28	2020-10-29
230	AAPL	4201.0	119509.0	1	EPS	2020-09-30	2020-10-25	21:59:00	2020-10-26	05:07:53	3.17	3.28	2020-10-29
231	AAPL	873.0	153096.0	1	EPS	2020-09-30	2020-10-26	00:16:00	2020-10-26	04:03:49	3.26	3.28	2020-10-29
232	AAPL	2502.0	192023.0	1	EPS	2020-09-30	2020-10-26	03:18:00	2020-10-26	06:43:58	3.19	3.28	2020-10-29
233	AAPL	2334.0	56181.0	1	EPS	2020-09-30	2020-10-26	16:16:00	2020-10-26	18:15:06	3.22	3.28	2020-10-29

234 rows × 13 columns

Same result as web query

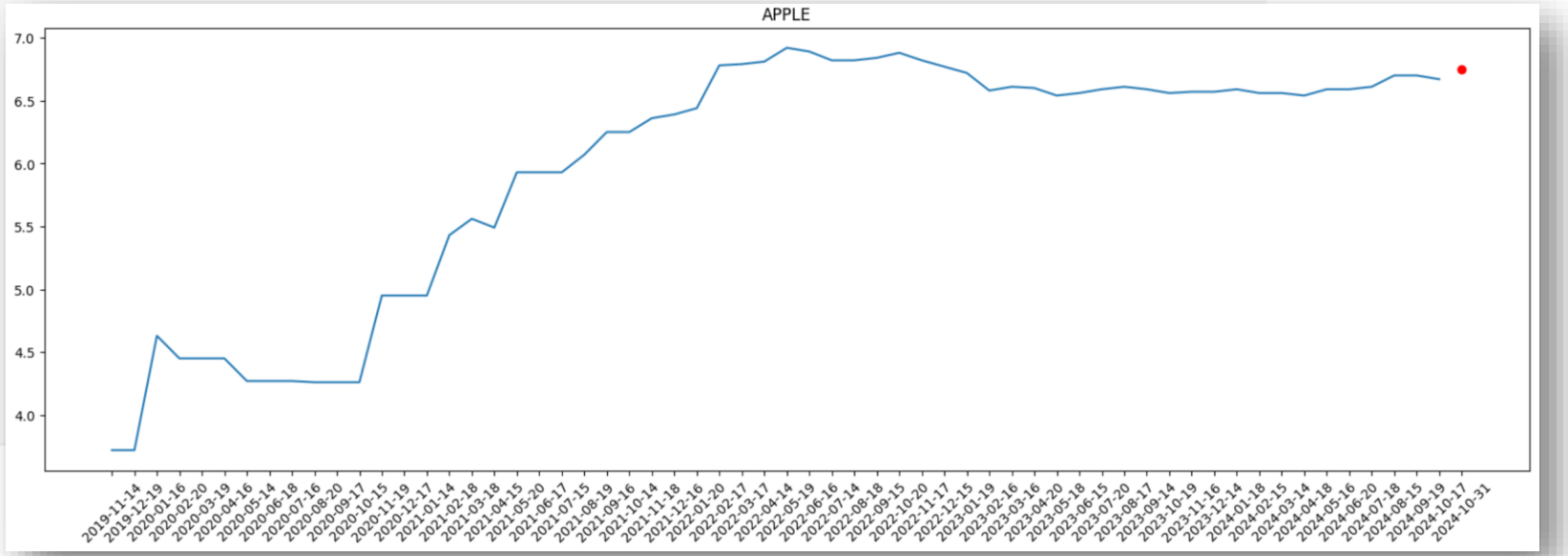
Python Script of SQL Query for LSEG I/B/E/S

Monthly Consensus(Summary) Estimates of Annual EPS for AAPL

```
data = db.raw_sql(
    """
    select ticker, cname, statpers, fpi, measure,curcode,numest, numup, numdown, medest, meanest, stdev, highest, lowest, fpedats, actual, actdats_act
    from tr_ibes.statsum_epsus
    where ticker='AAPL' and fpedats='2024-09-30' and fpi<'6'
    """
).sort_values(by='statpers')
data
```

•••

```
import matplotlib.pyplot as plt

plt.figure(figsize=(20, 6))
plt.xticks(rotation=90)

x = data['statpers']
y = data['meanest']
name = data['cname'][0]

x_act = data['actdats_act'][0]
y_act = data['actual'][0]

plt.plot(x,y)
plt.scatter(x_act,y_act, color='red')
plt.title(name)
plt.show()
```



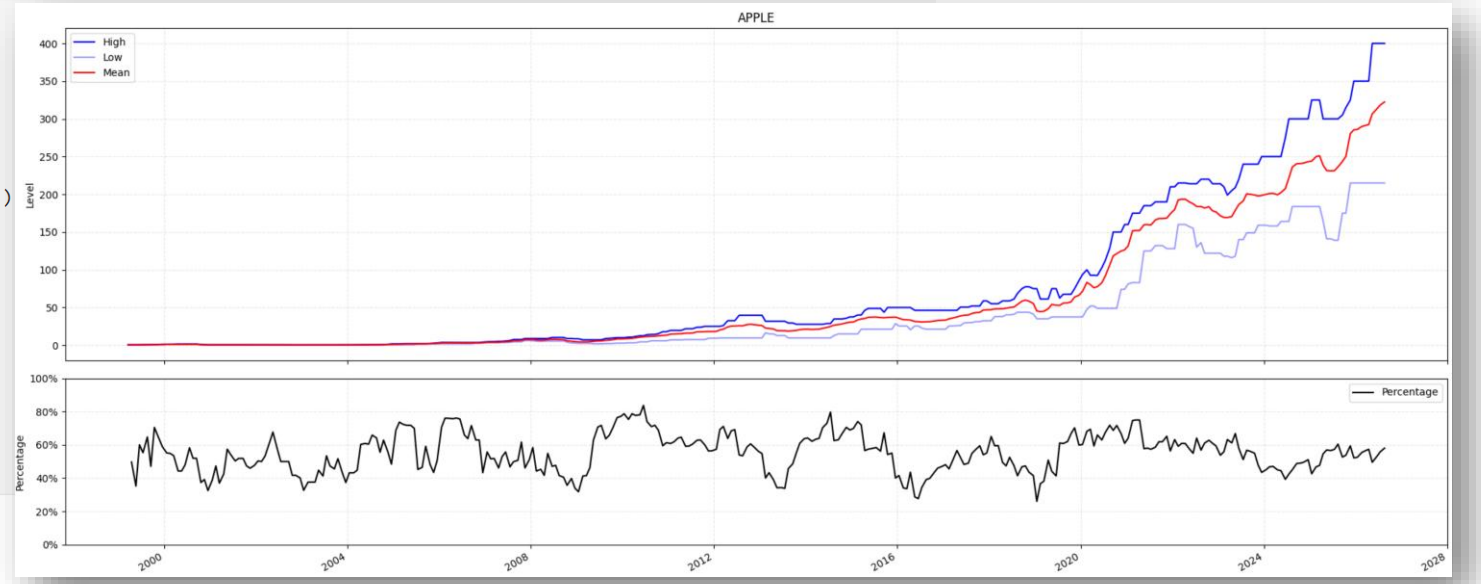
Python Script of SQL Query for LSEG I/B/E/S

Monthly Consensus of Target Price for AAPL

```
ptg_sum = db.raw_sql(
    """
    select *
    from tr_ibes.ptgsum
    where ticker='AAPL'
    """
)
ptg_sum.tail()
```

	ticker	cusip	oftic	cname	statpers	numest	numup4w	numdown4w	numup1m	numdown1m	meanptg	medptg	stdev	ptghigh	ptglow	curr	usfirm	measure
310	AAPL	03783310	AAPL	APPLE INC	2025-01-16	42.0	2.0	1.0	2.0	1.0	243.988	250.0	32.267	325.0	183.86	USD	1	PTG
311	AAPL	03783310	AAPL	APPLE INC	2025-02-20	41.0	19.0	2.0	19.0	4.0	249.924	254.0	33.23	325.0	183.86	USD	1	PTG
312	AAPL	03783310	AAPL	APPLE INC	2025-03-20	41.0	1.0	1.0	1.0	1.0	251.119	254.0	33.324	325.0	183.86	USD	1	PTG
313	AAPL	03783310	AAPL	APPLE INC	2025-04-17	43.0	1.0	12.0	1.0	12.0	238.708	250.0	34.186	300.0	165.0	USD	1	PTG
314	AAPL	03783310	AAPL	APPLE INC	2025-05-15	43.0	6.0	21.0	6.0	21.0	231.554	235.0	32.57	300.0	141.0	USD	1	PTG

```
import matplotlib.pyplot as plt
from datetime import datetime

plt.figure(figsize=(20, 6))
plt.xticks(rotation=90)
plt.gcf().autofmt_xdate()

ptg_sum['statpers'] = ptg_sum['statpers'].apply(lambda x: datetime.strptime(x, "%Y-%m-%d") )
x_sum  = ptg_sum['statpers']
y_mean = ptg_sum['meanptg']
y_high = ptg_sum['ptghigh']
y_low  = ptg_sum['ptglow']

plt.plot(x_sum,y_high, color='blue')
plt.plot(x_sum,y_low, color='blue')
plt.plot(x_sum,y_mean, color='red')

plt.title(name)
plt.show()
```



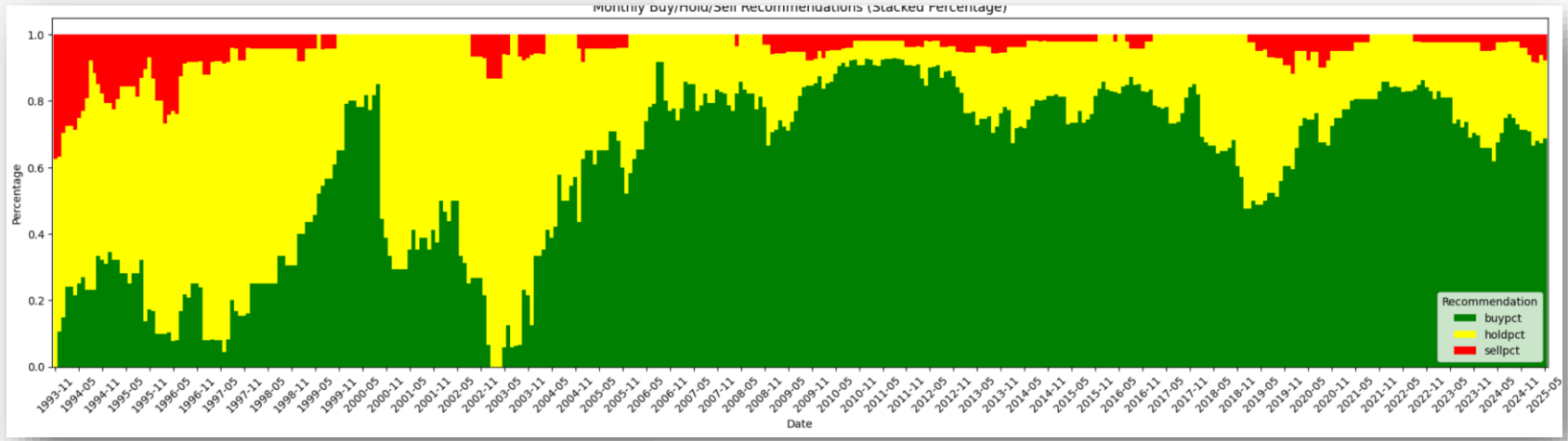
Python Script of SQL Query for LSEG I/B/E/S

Monthly Recommendation Percentages for AAPL

```
recd_sum = db.raw_sql(""" select *  from tr_ibes.recdsum   where ticker='AAPL'   """)        # Consensus Recommendation
recd_sum.head()
```

	ticker	cusip	oftic	cname	statpers	meanrec	medrec	stdev	numrec	numup	numdown	buypct	sellpct	holdpct	usfirm
0	AAPL	03783310	AAPL	APPLE COMPUTER	1993-11-18	3.5	3.0	0.76	8.0	0.0	0.0	0.0	37.5	62.5	1
1	AAPL	03783310	AAPL	APPLE COMPUTER	1993-12-16	3.32	3.0	0.95	19.0	0.0	0.0	10.53	36.84	52.63	1
2	AAPL	03783310	AAPL	APPLE COMPUTER	1994-01-20	3.22	3.0	0.93	27.0	0.0	0.0	14.81	29.63	55.56	1
3	AAPL	03783310	AAPL	APPLE COMPUTER	1994-02-17	3.17	3.0	1.07	29.0	5.0	2.0	24.14	27.59	48.28	1
4	AAPL	03783310	AAPL	APPLE COMPUTER	1994-03-17	3.14	3.0	1.13	29.0	1.0	0.0	24.14	27.59	48.28	1

```
import matplotlib.pyplot as plt
import matplotlib.dates as mdates
from datetime import datetime

# Prepare data
df = recd_sum[['statpers', 'buypct', 'holdpct', 'sellpct']]
df['statpers'] = df['statpers'].apply(lambda x: datetime.strptime(x, "%Y-%m-%d"))
df.set_index('statpers', inplace=True)

# Normalize to ensure each row sums to 100%
df = df.div(df.sum(axis=1), axis=0)

# Plot
fig, ax = plt.subplots(figsize=(20, 6))
df.plot.bar(stacked=True, color=['green', 'yellow', 'red'], ax=ax, width=1.0)

# Format x-axis
ax.set_title('Monthly Buy/Hold/Sell Recommendations (Stacked Percentage)')
ax.set_ylabel('Percentage')
ax.set_xlabel('Date')
ax.legend(title='Recommendation')

# Format x-axis as dates
ax.set_xticks(range(0, len(df.index), 6))  # Show every 6th month
ax.set_xticklabels([d.strftime('%Y-%m') for d in df.index[::6]], rotation=45)

plt.tight_layout()
plt.subplots_adjust(bottom=0.2)
plt.show()
```

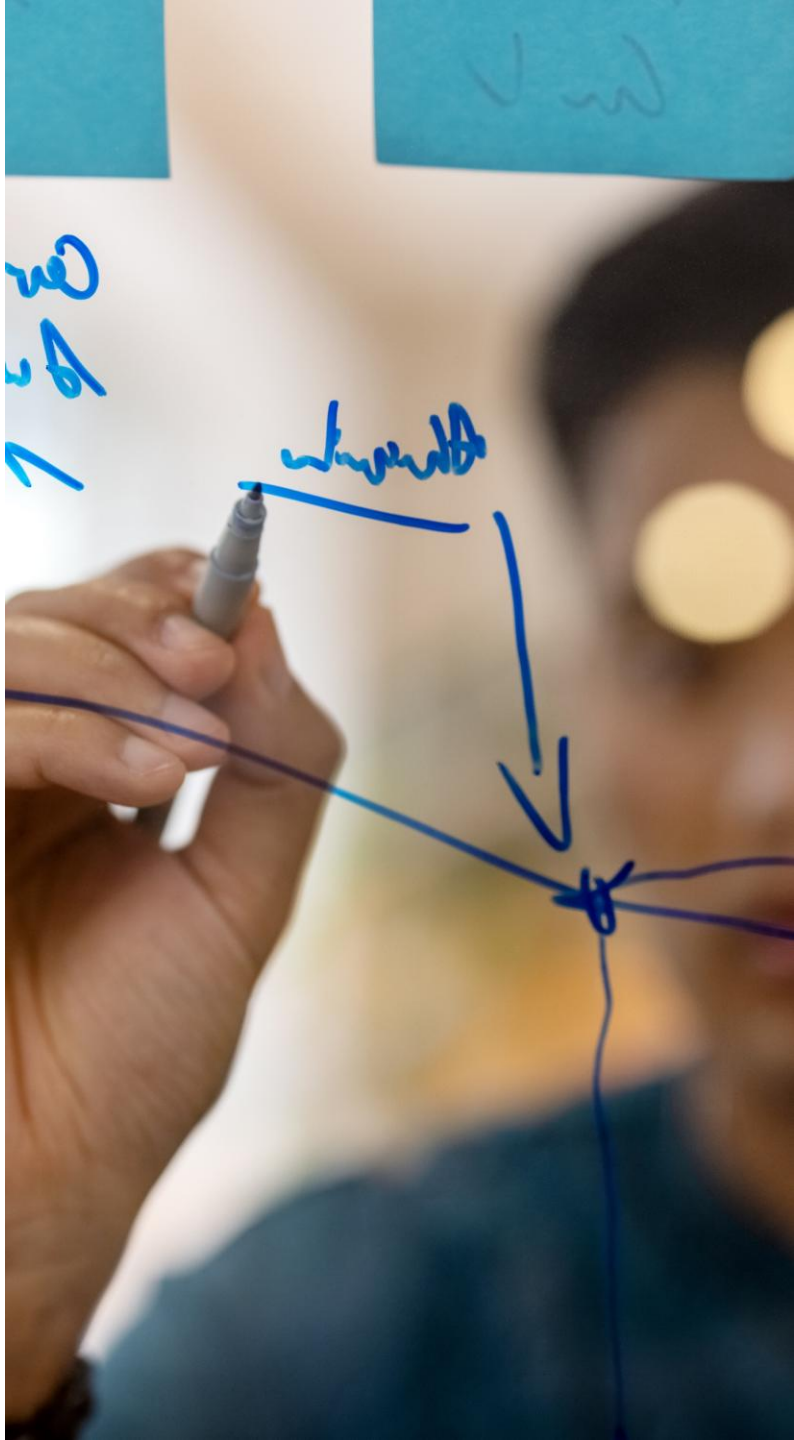


LSEG Academy

Summary

Key Points Covered Today

- 23,000+ active companies
- 950+ brokers
- Since 1976
- 20+ measures, Recommendation, Target Price,
- Detailed, Consensus, Aggregated, Guidance, KPI
- db.list_libraries(), db.list_tables()
  - ❑ tr_ibes
  - ❑ tr_ibes_guidance
  - ❑ tr_ibes_iga
  - ❑ tr_ibeskpi



LSEG Academy

LSEG ESG

1. LSEG Datasets on WRDS
2. Brief of LSEG ESG
3. Web Query LSEG ESG in WRDS
4. SQL Query for LSEG ESG via WRDS JupyterLab

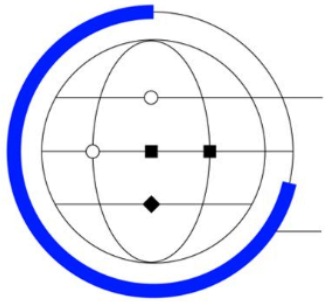


Brief of LSEG ESG

- Standardized ESG scores and ratings
- 16,000+ companies
- 76 countries
- 95% of global market cap
- 870+ data points, 186 comparable measures
- Back to 2002

LSEG

LSEG ESG Coverage



76 countries

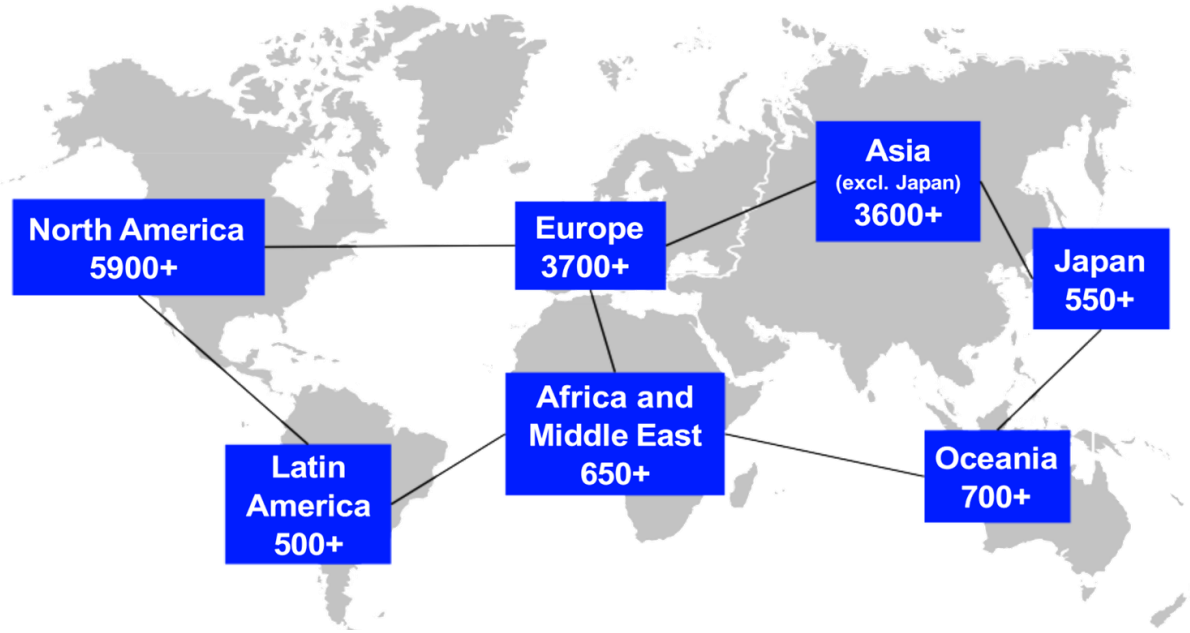
95% of global market cap

870+ ESG metrics, including scores and grades

1.8M officers and directors

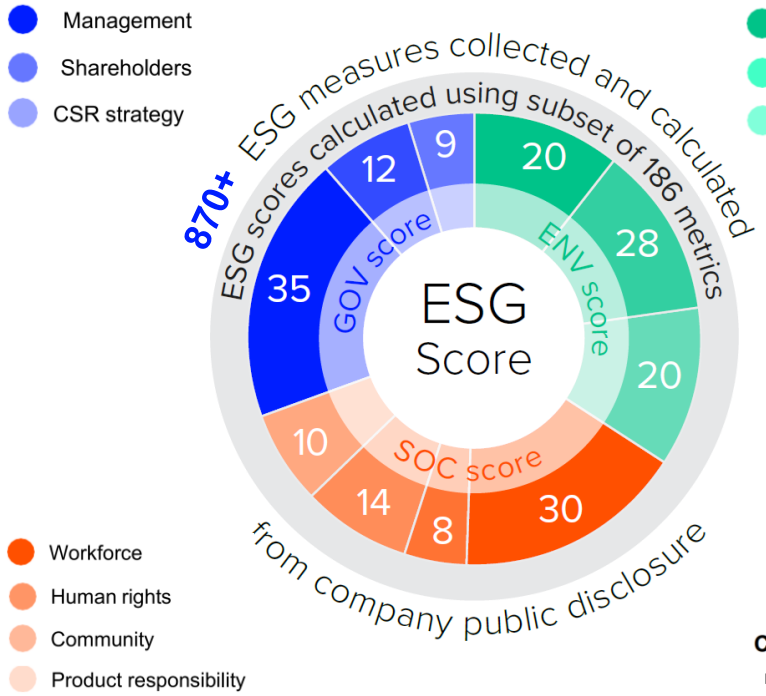
800K individual fixed income securities

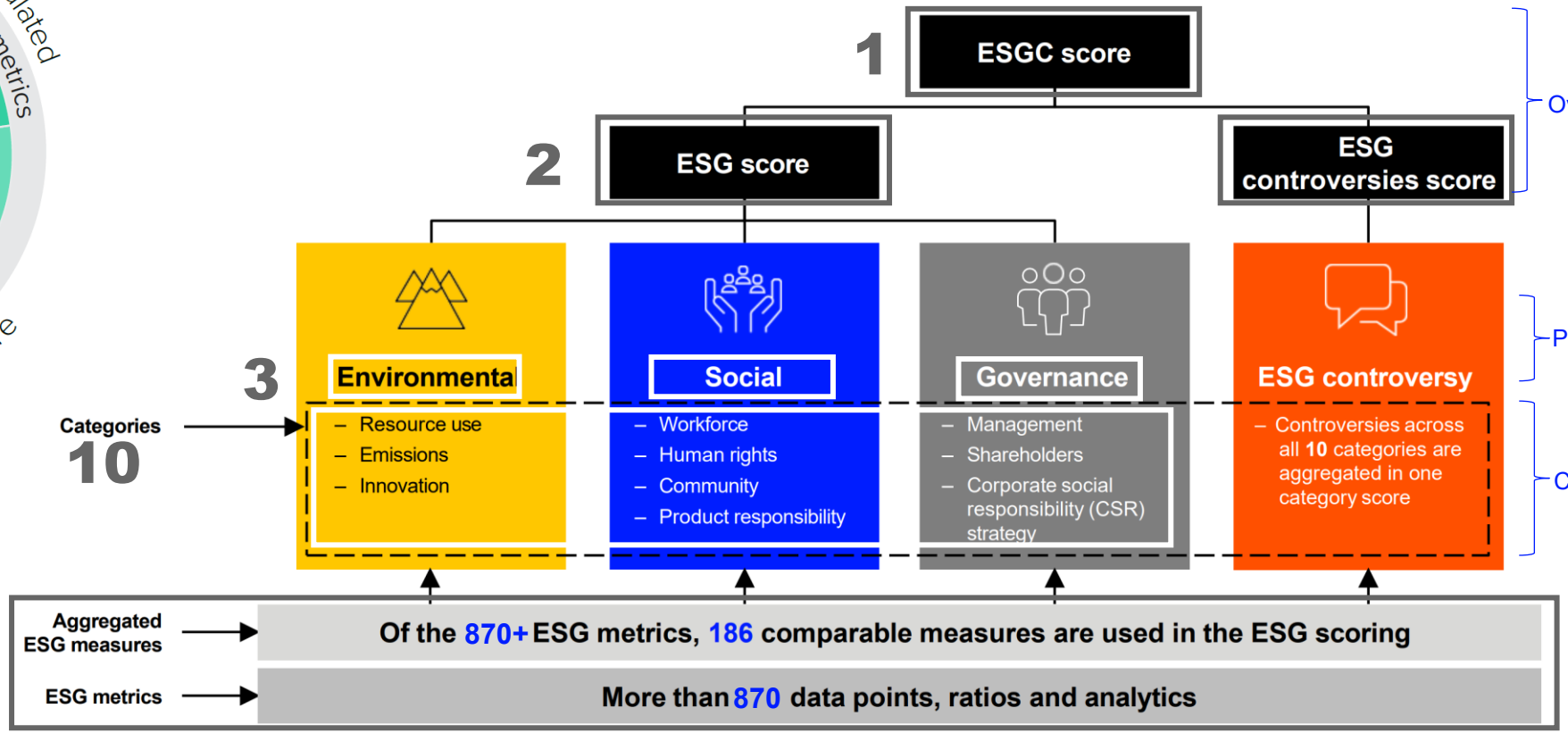
16K companies with ESG data



2003	2008	2009	2011	2012	2013	2016	2017	2018	2019	2020	2021	2022
SMI DAX CAC 40 FTSE 100 FTSE 250 S&P 500 NASDAQ 100	DJ STOXX MSCI World	S&P/TSX COMPOSITE	Russell 1000 MSCI Emerging Markets	Bovespa	S&P ASX 300	S&P NSX 50	IPC 35 IPSA 40 MERVAL COLCAP PERU GENERAL INDEX	MCSI Emerging Markets – China (179 new companies)	MCSI Europe Small & Mid Cap Index	Coverage: China Singapore European small/ mid cap Canada (TSX small-cap index)	CSI 300 950 companies*	CSI 500 FTSE Bursa-Malaysia FTSE All World

Data and Score Framework

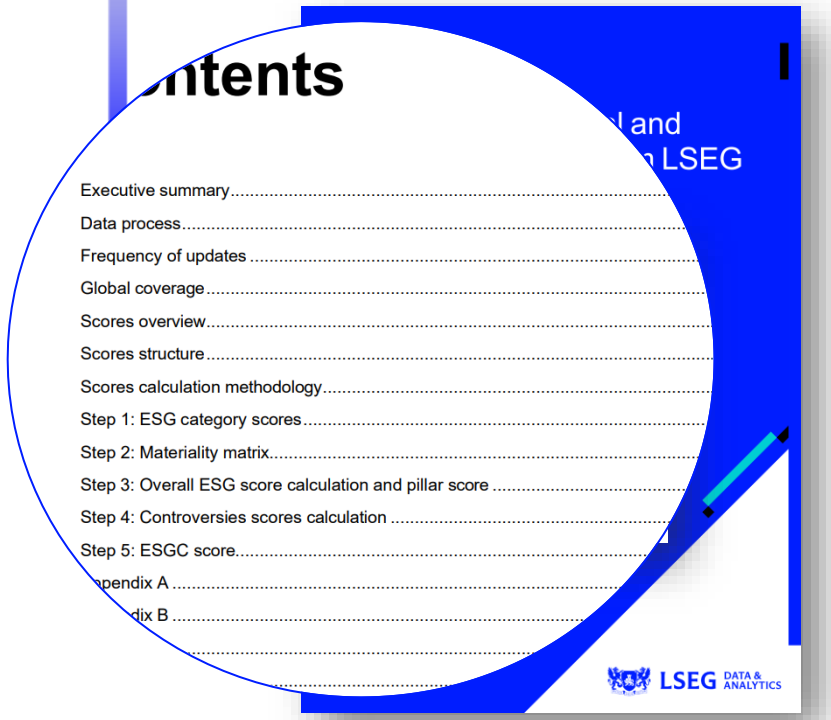




Score Range and Rating Grade

Score range	Grade	Description
0.0 <= score <= 0.083333	D -	'D' score indicates poor relative ESG performance and insufficient degree of transparency in reporting material ESG data publicly.
0.083333 < score <= 0.166666	D	
0.166666 < score <= 0.250000	D +	
0.250000 < score <= 0.333333	C -	'C' score indicates satisfactory relative ESG performance and moderate degree of transparency in reporting material ESG data publicly.
0.333333 < score <= 0.416666	C	
0.416666 < score <= 0.500000	C +	
0.500000 < score <= 0.583333	B -	'B' score indicates good relative ESG performance and above- average degree of transparency in reporting material ESG data publicly.
0.583333 < score <= 0.666666	B	
0.666666 < score <= 0.750000	B +	
0.750000 < score <= 0.833333	A -	'A' score indicates excellent relative ESG performance and high degree of transparency in reporting material ESG data publicly.
0.833333 < score <= 0.916666	A	
0.916666 < score <= 1	A +	

ESG laggards



Category Weight

Category & Pillar Weights

Different according to materiality to the industry group*

Coal

Pillar	Category	W %	PW %
ENV	Resource Use	19%	41%
	Emissions	20%	
	Innovation	2%	
SOC	Workforce	10%	29%
	Human Rights	7%	
	Community	10%	
	Product Res.	2%	
GOV	Management	20%	30%
	Shareholders	6%	
	CSR Strategy	4%	

Banking Services

Pillar	Category	W %	PW %
ENV	Resource Use	2%	14%
	Emissions	2%	
	Innovation	10%	
SOC	Workforce	19%	50%
	Human Rights	10%	
	Community	12%	
	Product Res.	9%	
GOV	Management	24%	36%
	Shareholders	7%	
	CSR Strategy	5%	

Importance frame: The weight of the ESG category varies greatly by TRBC industry classification

Emission Category

Title	Dt.	+/-
Total CO2 Equivalent Emissions To Revenues USD	F(I)	-
VOC or Particulate Matter Emissions Reduction	B	+
Total Waste To Revenues USD	F(I)	-
Waste Recycled To Total Waste	F(I)	+
Total Hazardous Waste To Revenues USD	F(I)	-
Water Pollutant Emissions To Revenues USD	F(I)	-
Environmental Expenditures Investments	B	+
Policy Emissions	B	+
Targets Emissions	B	+
Biodiversity Impact Reduction	B	+
Flaring Gases	F	-
Cement CO2 Equivalents Emission	F	-
Ozone-Depleting Substances	F	-
NOx and SOx Emissions Reduction	B	+
NOx Emissions	F	-
SOx Emissions	F	-
VOC Emissions	F	-
e-Waste Reduction	B	+
Emissions Trading	B	+
Environmental Partnerships	B	+
EMS Certified Percent	B	+
Environmental Restoration Initiatives	B	+
Staff Transportation Impact Reduction	B	+
Accidental Spills	F	-
Climate Change Commercial Risks Opportunities	B	+
CO2 Equivalent Emissions Indirect, Scope 3	F	-
Self-Reported Environmental Fines	F	-
Internal Carbon Price per Tonne	F	+

Innovation Category

Title	Dt.	+/-
Environmental Products	B	+
Noise Reduction	B	+
Fleet Fuel Consumption	F	-
Hybrid Vehicles	B	+
Fleet CO2 Emissions	F	-
Environmental Assets Under Mgt	B	+
Nuclear Production	F	-
Labeled Wood Percentage	F	+
Organic Products Initiatives	B	+
Agrochemical Products	B	+
Renewable/Clean Energy Products	B	+
Water Technologies	B	+
Sustainable Building Products	B	+
Real Estate Sustainability Certifications	B	+
Env R&D Expenditures To Revenues in million	F(I)	+
Equator Principles or Env Project Financing	B	+
Product Impact Minimization	B	+
Renewable Energy Supply	F(I)	+
Revenue from Environmental Products	F	+
Fossil Fuel Divestment Policy	B	+

ESG ratings include:

1. Exposure to specific sustainability risks (value)
2. Company's actions to manage this risk (+/-)

Web Query LSEG ESG in WRDS

LSEG ESG Methodology

SCHEMA FOR ESG DATA V2

LSEG

LSEG ESG

Refinitiv is now named LSEG. Evaluate transparent ESG data and scores for 15,000+ companies across 76 countries, covering over 88% of the global market cap

» V2 LSEG ESG Scores

LSEG

More About This Vendor »

Knowledge Base »

» Insiders

» Mutual Fund (S12)

» Institutional Holdings (S34)

Manuals and Overviews »

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V2 LSEG ESG Scores

Query Form | Variable Descriptions | Manuals and Overviews | Knowledge Base | Data Preview

This query gives the LSEG ESG fields which contain ESG scores and category scores as well as the data points and indicators that make up the scores and category scores. A user runs the query by first selecting the ESG fields in Step 3. In other words, Step 3 will filter the rows of the query output. The user then selects the columns of the query output in St

Product:	tr_esg
Library:	tresg
File:	wrds_ref_esg
Date Range:	(year) Year: 2002-01-01 - 2025-09-02
Last Updated On:	2025-09-02
Update Frequency:	Quarterly

Variable Reference

Variable Name	Type	Description
1	Char	ESG Score
2	Char	ESG Combined Score
3	Char	ESG Controversies Score
4	Char	Environment Pillar Score
5	Char	Governance Pillar Score
6	Char	Social Pillar Score
7	Char	Resource Use Score
8	Char	Emissions Score
9	Char	Environmental Innovation Score
10	Char	Workforce Score

Step 1: Choose your date range.

Date Variable:

2024 to 2025

Step 2: Apply your company codes.

What format are your company codes?

Autocomplete
CUSIP | Primary ISIN | Primary SEDOL | Primary Ticker | Organiz... Permane...

Select an option for entering your company codes:

Company Codes | Code List Name

Please enter company codes separated by a space.
Examples
Org Perm ID: 4295904307 4295907168 4295905573
CUSIP: 459200101 594918104 037833100
ISIN: US4592001014 US5949181045 US0378331005
SEDOL: 2005973 2588173 2046251
Ticker: IBM MSFT AAPL

Save this code list to Saved Codes

[Code Lookup: This table provides detailed reference information about organizations]
[Code Lookup: Information on all the current and historic Cusip values for a financial instrument]
[Code Lookup: This table provides information on all the current and historic ISIN values for a financial instrument]
[Code Lookup: This table provides information on all the current and historic Sedol values for a Quote]
[Code Lookup: This table provides detailed reference information about quotes]

---------Select Saved Codes List---------

Step 3: Select ESG Fields

How does this work?

Select row header

ESG Fields 16/633

Select All | Search All

- TRDIR Score
- TRDIR Diversity Score
- TRDIR People Development Score
- TRDIR Inclusion Score
- TRDIR Controversies Score
- Anti-Competition Controversies Count
- Business Ethics Controversies
- Community Lending and Investments
- Corporate Responsibility Awards
- Crisis Management Systems

Selected (16) Clear All

- ESG Score
- ESG Combined Score
- ESG Controversies Score
- Environment Pillar Score
- Governance Pillar Score
- Social Pillar Score
- Resource Use Score
- Emissions Score
- Environmental Innovation Score
- Workforce Score
- Human Rights Score

Step 4: Choose query variables.

How does this work?

Select column header

Refinitiv ESG Data 6/17

Select All | Search All

- (cusip) CUSIP
- (isin) Primary ISIN
- (sedol) Primary SEDOL
- (siccode) SIC Code
- (naicscode) NAICS Code
- (fieldid) Field ID
- (hierarchy) Field Hierarchy
- (pillar) Field Pillar
- (valuedate) Value Date

Selected (6) Clear All

- (fieldname) Field Name
- (value) Value
- (valuescore) Value Score
- (ticker) Primary Ticker
- (year) Year
- (comname) Company Name

LSEG ESG

Sample result for web query in WRDS

	A	B	C	D	E	F	G
1	Year	Primary Ticker	Company Name	Field ID	Field Name	Value	Value Score
2	2024	AAPL	APPLE INC.	1	ESGScore	B+	0.7134
3	2024	AAPL	APPLE INC.	2	ESGCombinedScore	C	0.3663
4	2024	AAPL	APPLE INC.	3	ESGControversiesScore	D-	0.0192
5	2024	AAPL	APPLE INC.	4	EnvironmentPillarScore	B	0.6550
6	2024	AAPL	APPLE INC.	5	GovernancePillarScore	A	0.8801
7	2024	AAPL	APPLE INC.	6	SocialPillarScore	B	0.6472
8	2024	AAPL	APPLE INC.	7	ESGResourceUseScore	A	0.9000
9	2024	AAPL	APPLE INC.	8	ESGEmissionsScore	A+	0.9955
10	2024	AAPL	APPLE INC.	9	ESGInnovationScore	C+	0.4535
11	2024	AAPL	APPLE INC.	10	ESGWorkforceScore	B-	0.5708
12	2024	AAPL	APPLE INC.	11	ESGHumanRightsScore	A	0.8434
13	2024	AAPL	APPLE INC.	12	ESGCommunityScore	B-	0.5796
14	2024	AAPL	APPLE INC.	13	ESGProductResponsibilityScor	C+	0.4495
15	2024	AAPL	APPLE INC.	14	ESGManagementScore	A+	0.9380
16	2024	AAPL	APPLE INC.	15	ESGShareholdersScore	A-	0.7913
17	2024	AAPL	APPLE INC.	16	ESGCsrStrategyScore	B+	0.7237

Variables chosen from step 4

ESG Fields chosen from step 3

SQL Query for LSEG ESG via WRDS JupyterLab

LSEG

Python: From the Web (JupyterHub)

Learn how to access WRDS data from JupyterHub with Python from the WRDS website

JupyterHub at WRDS

Open JupyterHub

Example Research Applications in JupyterHub

Top of Section

Introduction to JupyterHub Python

Jupyter is a vibrant, active open source project with lots of information online. See the JupyterLab site for getting started and how to use it: Jupyter documentation

This documentation uses several related but different terms:

- JupyterHub: "A multi-user version of the notebook designed for companies, classrooms and research labs." JupyterHub is the page you login to which creates your notebooks on WRDS Cloud.
- JupyterLab: "JupyterLab is the next-generation web-based user interface for Project Jupyter." This is main web application where you write your code and execute notebooks.
- Jupyter Notebook: "The Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations and narrative text." JupyterLab is your notebook on WRDS Cloud.
- Project Jupyter: The open source project behind JupyterHub, JupyterLab, and Jupyter Notebook.

Top of Section

Fetching Data

Python is a widely-used high-level programming language that is both powerful and easy to use, and is proving to be a major player in large-scale data analytics applications.

WRDS provides a direct interface for Python access, allowing native querying of WRDS data right within your Python program. Most WRDS data is stored in a PostgreSQL database, and is available through Python via our in-house Python module, **wrds**, which is freely available on PyPI via a `pip install`.

Some data is only available through SAS. This data can be exported from SAS into a Python-compatible file format such as CSV and imported into Python.

Here is an example of a simple query against the Dow Jones Averages & Total Return Indexes using the **wrds**

More About This Vendor »

Knowledge Base »

» Insiders

» Mutual Fund (S12)

» Institutional Holdings (S34)

Manuals and Overviews »

Python Script of SQL Query for LSEG ESG

Import wrds Libarary and Authenticate

```
import wrds
db = wrds.Connection()
```

```
Loading library list...
Done
```

Available LSEG ESG Libraries in WRDS

```
db.list_libraries()      # List your subscribed datasets
```

```
[n for n in db.list_libraries() if "esg" in n]  # Python List Comprehension
```

```
['tr_esg', 'tresg', 'tresgsmp', 'trsamp_esg']
```

LSEG ESG Library

Available Tables of LSEG ESG library("tr_esg")

```
db.list_tables(library="tr_esg")
```

```
['esgasrepdata',
 'esgcode',
 'esgdesc',
 'esgdniratings',
 'esgenvdatapoint',
 'esgenvindicator',
 'esggovdatapoint',
 'esggovindicator',
 'esgitem',
 'esgorgindcls',
 'esgscores',
 'esgsocdatapoint',
 'esgsocindicator',
 'esgsourcedata',
 'esgsourcemap',
 'esgstmtdet',
 'wrds_ref_esg',
 'wrds_ref_esg_item']
```

LSEG

Python Script of SQL Query for LSEG ESG

Available Tables of LSEG ESG Library(tr_esg) and Primary Keys:

```
import pandas as pd
df = pd.DataFrame()
for each in db.list_tables(library="tr_esg"):
    data = db.describe_table(library="tr_esg", table=each)
    data.index = data['name']
    data_tmp = data[['name', 'comment']]
    data_tmp.columns = [each, 'comment']
    df = pd.concat([df, data_tmp[each]], axis=1)
df
```

```
Approximately 959347 rows in tr_esg.esgasrepdata.
Approximately 182 rows in tr_esg.esgcode.
Approximately 1586 rows in tr_esg.esgdesc.
Approximately 268264 rows in tr_esg.esgdniratings.
Approximately 7750197 rows in tr_esg.esgenvdatapoint.
Approximately 1376751 rows in tr_esg.esgenvindicator.
Approximately 9492976 rows in tr_esg.esggovdatapoint.
Approximately 4543797 rows in tr_esg.esggovindicator.
Approximately 633 rows in tr_esg.esgitem.
Approximately 41623 rows in tr_esg.esgorgindcls.
Approximately 2069354 rows in tr_esg.esgscores.
Approximately 10302569 rows in tr_esg.esgsocdatapoint.
Approximately 1710259 rows in tr_esg.esgsocindicator.
Approximately 8781213 rows in tr_esg.esgsourcedata.
Approximately 13966872 rows in tr_esg.esgsourcemap.
Approximately 159617 rows in tr_esg.esgstmtdet.
Approximately 37534406 rows in tr_esg.wrds_ref_esg.
Approximately 633 rows in tr_esg.wrds_ref_esg_item.
```

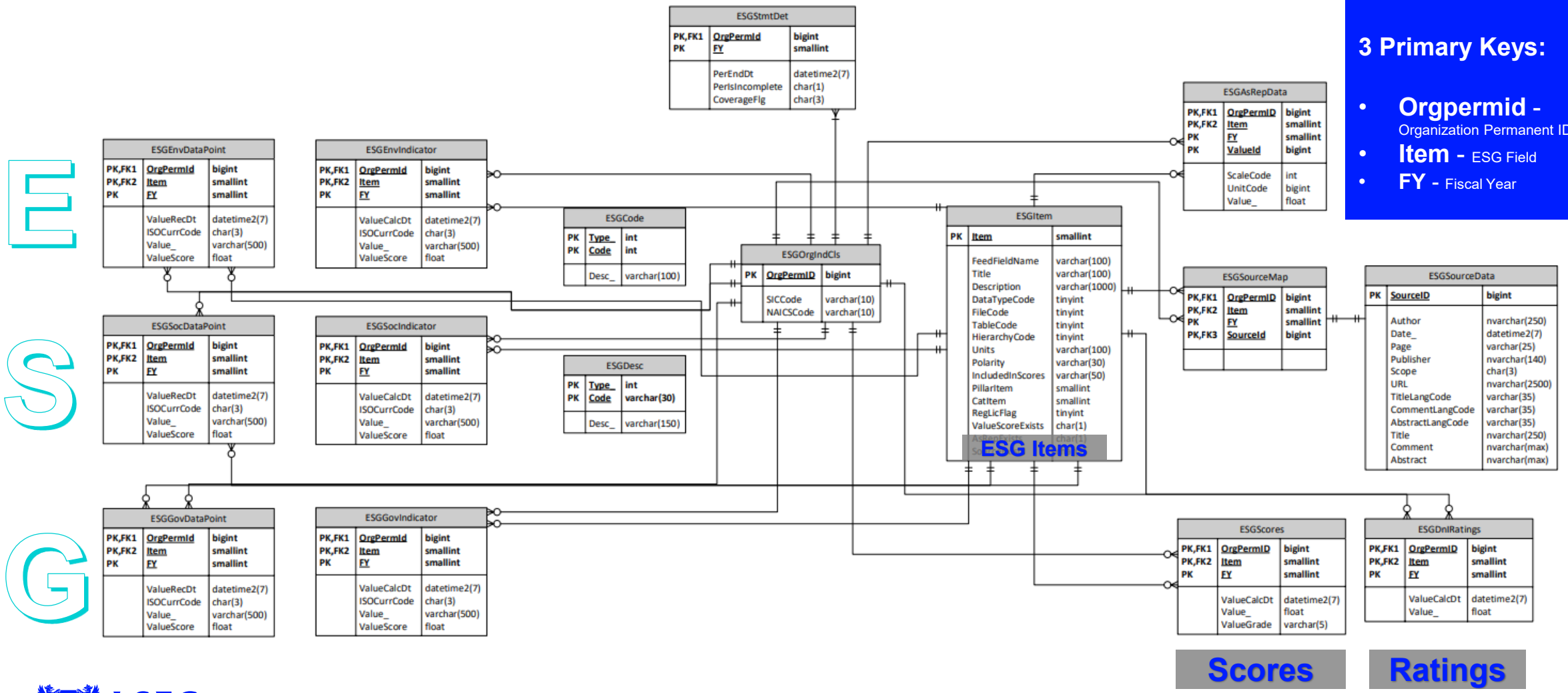
# of records of each table

Primary Keys:
- orgpermid: organization Permanent ID
- Item : ESG fields
- fy : fiscal year

	esgasrepdata	esgcode	esgdesc	esgdniratings	esgenvdatapoint	esgenvindicator	esggovdatapoint	esggovindicator	esgitem	esgorgindcls	esgscores
orgpermid	orgpermid	NaN	NaN	orgpermid	orgpermid	orgpermid	orgpermid	orgpermid	NaN	orgpermid	orgpermid
item	item	NaN	NaN	item	item	item	item	item	item	NaN	item
fy	fy	NaN	NaN	fy	fy	fy	fy	fy	NaN	NaN	fy
valueid	valueid	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
scalecode	scalecode	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
...	...	...	...	...	...	...	...	...	...	...	...
value	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
currency	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

Schema Diagram

The following diagram shows the relationships between the ESG Version 2 tables.



3 Primary Keys:

- **Orgpermid -** Organization Permanent ID
- **Item -** ESG Field
- **FY -** Fiscal Year

Python Script of SQL Query for LSEG ESG

Retrieve the Top Level 16 ESG Scores and Ratings for Apple in FY 2024

Join tables by item and orgpermid

Select columns from multiple tables

```
db.raw_sql("""
    SELECT DISTINCT c.comname, c.ticker, c.cusip, b.title, a.*
    FROM tr_esg.esgscores    a
    JOIN tr_esg.esgitem      b ON a.item = b.item
    JOIN tr_esg.wrds_ref_esg c ON a.orgpermid = c.orgpermid
    WHERE c.ticker = 'AAPL' and a.fy='2024'
""").sort_values(by='item')
```

Join-table Query Syntax

SELECT a.fields, b.fields
FROM library.table1 a
JOIN library.table2 b
ON a.field = b.field
WHERE conditions

	comname	ticker	cusip	title	orgpermid	item	fy	valuecalcdt	value_	valuegrade
14	APPLE INC.	AAPL	037833100	ESG Score	4295905573.0	1	2024	2025-08-30	0.713377	B+
0	APPLE INC.	AAPL	037833100	ESG Combined Score	4295905573.0	2	2024	2025-08-30	0.366304	C
11	APPLE INC.	AAPL	037833100	ESG Controversies Score	4295905573.0	3	2024	2025-07-26	0.019231	D-
6	APPLE INC.	AAPL	037833100	Environment Pillar Score	4295905573.0	4	2024	2025-08-30	0.655002	B
4	APPLE INC.	AAPL	037833100	Governance Pillar Score	4295905573.0	5	2024	2025-08-30	0.880086	A
8	APPLE INC.	AAPL	037833100	Social Pillar Score	4295905573.0	6	2024	2025-08-30	0.647174	B
9	APPLE INC.	AAPL	037833100	Resource Use Score	4295905573.0	7	2024	2025-08-30	0.9	A
10	APPLE INC.	AAPL	037833100	Emissions Score	4295905573.0	8	2024	2025-06-21	0.995455	A+
5	APPLE INC.	AAPL	037833100	Environmental Innovation Score	4295905573.0	9	2024	2025-07-19	0.453488	C+
7	APPLE INC.	AAPL	037833100	Workforce Score	4295905573.0	10	2024	2025-08-15	0.570796	B-
3	APPLE INC.	AAPL	037833100	Human Rights Score	4295905573.0	11	2024	2025-08-09	0.843434	A
1	APPLE INC.	AAPL	037833100	Community Score	4295905573.0	12	2024	2025-08-30	0.579646	B-
12	APPLE INC.	AAPL	037833100	Product Responsibility Score	4295905573.0	13	2024	2025-08-30	0.449541	C+
15	APPLE INC.	AAPL	037833100	Management Score	4295905573.0	14	2024	2025-08-30	0.937983	A+
2	APPLE INC.	AAPL	037833100	Shareholders Score	4295905573.0	15	2024	2025-08-30	0.791321	A-
13	APPLE INC.	AAPL	037833100	CSR Strategy Score	4295905573.0	16	2024	2025-08-30	0.723748	B+

Python Script of SQL Query for LSEG ESG

Retrieve Raw CO2 Emission Data for Apple in FY 2024

```
esg_items = list(db.get_table(library="tr_esg", table="esgitem")['title'])
co2_fields = [item for item in esg_items if any(char.lower() in item.lower() for char in ['co2','scope','emissions'])]
tuple(co2_fields)        # Create a tuple for the fields that include "CO2" or "Emissioms" or "SCOPE"
```

...

Set parameter dictionary

```
params = {'title': tuple(co2_fields)}

db.raw_sql("""
    SELECT DISTINCT c.comname, c.ticker, c.cusip, b.title, a.*
    FROM tr_esg.esgenvdatapoint    a
    JOIN tr_esg.esgitem      b ON a.item = b.item
    JOIN tr_esg.wrds_ref_esg c ON a.orgpermid = c.orgpermid
    WHERE c.ticker = 'AAPL' and a.fy='2024' and b.title IN %(title)s
""",
    params =params).sort_values(by='item')
```

	comname	ticker	cusip	title	orgpermid	item	fy	valuer			
4	APPLE INC.	AAPL	037833100	CO2 estimation method	4295905573.0	89	2024	2025-0			
9	APPLE INC.	AAPL	037833100	Estimated CO2 Equivalents Emission Total	4295905573.0	90	2024	2025-0			
0	APPLE INC.	AAPL	037833100	CO2 Equivalent Emissions Direct, Scope 1	4295905573.0	95	2024	2025-0			
2	APPLE INC.	AAPL	037833100	CO2 Equivalent Emissions Indirect, Scope 3	4295905573.0	96	2024	2025-0			
1	APPLE INC.	AAPL	037833100	CO2 Equivalent Emissions Indirect, Scope 2	4295905573.0	97	2024	2025-0			
3	APPLE INC.	AAPL	037833100	CO2 Equivalent Emissions Total	4295905573.0	98	2024	2025-0			
8	APPLE INC.	AAPL	037833100	Emissions Trading	4295905573.0	101	2024	2025-0			
10	APPLE INC.	AAPL	037833100	NOx and SOx Emissions Reduction	4295905573.0	116	2024	2025-0			
11	APPLE INC.	AAPL	037833100	Particulate Matter Emissions Reduction	4295905573.0	118	2024	2025-07-22	<NA>	true	<NA>
12	APPLE INC.	AAPL	037833100	Policy Emissions	4295905573.0	119	2024	2025-07-22	<NA>	true	0.584071

```
('Emissions Score',
 'ESG Reporting Scope',
 'CO2 estimation method',
 'Estimated CO2 Equivalents Emission Total',
 'Cement CO2 Equivalents Emission',
 'CO2 Equivalent Emissions Direct, Scope 1',
 'CO2 Equivalent Emissions Indirect, Scope 3',
 'CO2 Equivalent Emissions Indirect, Scope 2',
 'CO2 Equivalent Emissions Total',
 'Emissions Trading',
 'NOx Emissions',
 'NOx and SOx Emissions Reduction',
 'Particulate Matter Emissions Reduction',
 'Policy Emissions',
 'SOx Emissions',
 'Targets Emissions',
 'VOC Emissions',
 'VOC Emissions Reduction',
 'Water Pollutant Emissions',
 'NOx Emissions To Revenues USD in million',
 'CO2 Equivalent Emissions Indirect, Scope 3 To Revenues USD in million',
 'SOx Emissions To Revenues USD in million',
 'Total CO2 Equivalent Emissions To Revenues USD in million',
 'VOC Emissions To Revenues USD in million',
 'VOC or Particulate Matter Emissions Reduction',
 'Water Pollutant Emissions To Revenues USD in million',
 'Fleet CO2 Emissions',
 'Downstream scope 3 emissions End-of-life Treatment of Sold Products',
 'Downstream scope 3 emissions Franchises',
 'Downstream scope 3 emissions Investments',
```

V2 LSEG ESG Scores

Query Form | Variable Descriptions | Manuals and Overviews | Knowledge Base | Data Preview

V1/V2 Refinitiv ESG Transition...

V2 Refinitiv ESG Schema

V2 Refinitiv ESG Scores Meth...

V2 Refinitiv ESG Measure Glo...

V2 Refinitiv ESG Score Example

» WRDS Overview of LSEG ESG

Top



More About This Vendor »

LSEG »

LSEG ESG (hide)

» V2 LSEG ESG Scores

Knowledge Base »

» Insiders

» Mutual Fund (S12)

» Institutional Holdings (S34)

Manuals and Overviews »

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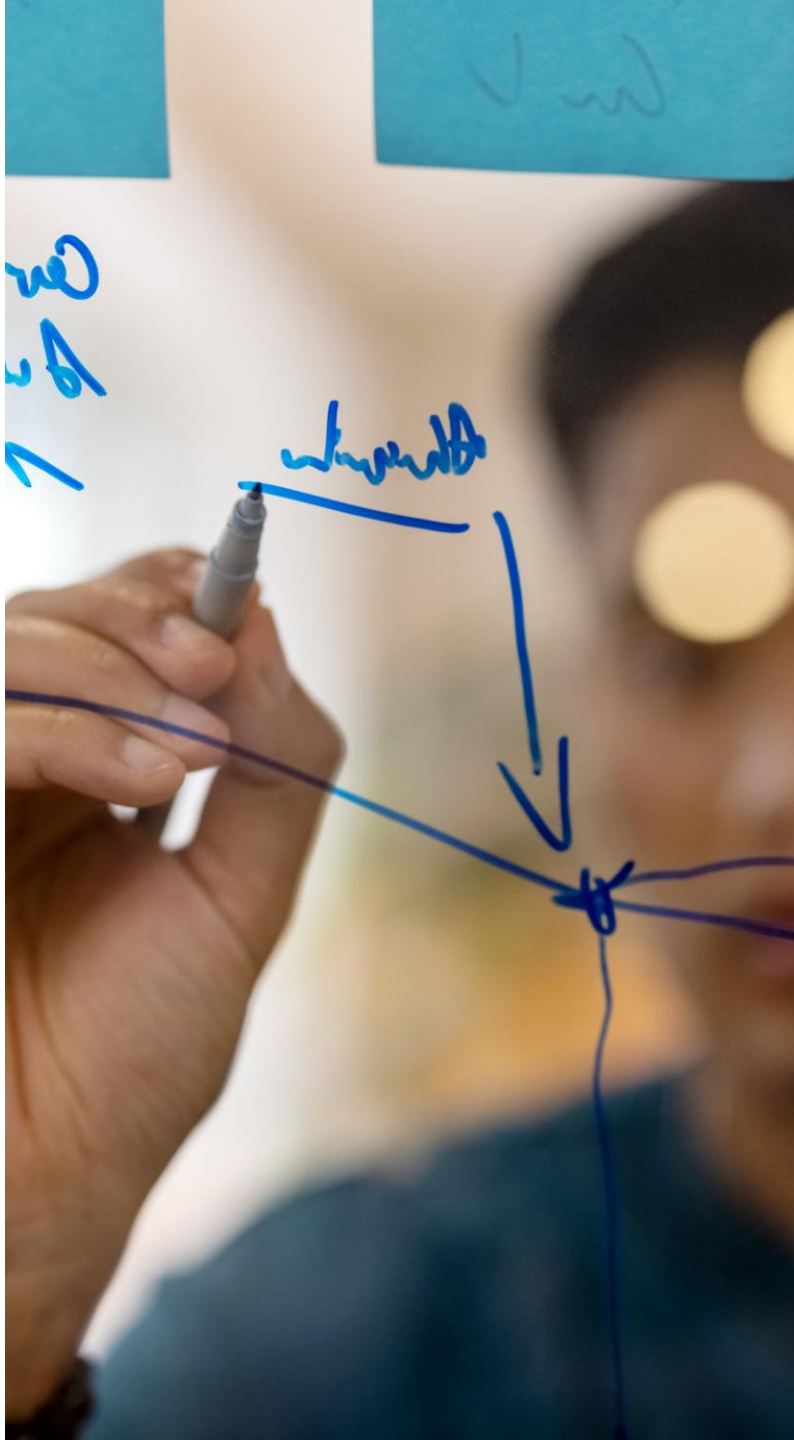
Summary

Key Points Covered Today

- 870 data points, 186 comparable measures
- Standardized ESG Scores and Ratings
- 16,000+ companies, 76 countries, 95% of MV
- db.list_libraries()
  - ❑ tr_esg
- 3 Primary Keys
  - ❑ orgpermid, item, fy





LSEG Research Data Guide for Wharton Research Data Services (WRDS)

INTERACTIVE

The LSEG Research Data Guide is an interactive guide for academic researchers, helping you quickly understand LSEG datasets available on the WRDS platform and which common research areas each one supports.

Data Solutions • Continuous Learning



Top 5 LSEG Databases on WRDS for Academic Research

VIDEO COURSE

Overview of the most widely used LSEG databases in academic research on financial markets, including I/B/E/S, Datastream, Ownership, Deals, and LSEG ESG. This video introduces their key features.

Wharton Research Data Services (WRDS) • Introductory • 3 min



I/B/E/S via WRDS

VIDEO COURSE

Introduction to the fundamentals of financial forecasting and guidance on accessing broker forecasts through the I/B/E/S dataset via WRDS platform.

Wharton Research Data Services (WRDS) • Introductory • 4 min



Ownership via WRDS

VIDEO COURSE

Introduction to the LSEG Ownership datasets available on WRDS, including mutual fund holdings, institutional holdings, and insider trading data. This video covers the structure of these datasets and how to access them for research purposes.

Wharton Research Data Services (WRDS) • Introductory • 4 min



SDC Deals Via WRDS

VIDEO COURSE

Overview of LSEG Deals datasets on WRDS, including SDC Mergers & Acquisitions and SDC New Issues. Learn how to retrieve and utilize these datasets for transaction-level analysis in financial research.

Wharton Research Data Services (WRDS) • Introductory • 4 min



LSEG ESG via WRDS

VIDEO COURSE

Exploration of the LSEG ESG dataset, including its methodology and instructions for retrieving the data via WRDS for research in sustainable finance.

Wharton Research Data Services (WRDS) • Introductory • 4 min



DealScan via WRDS

VIDEO COURSE

Introduction to the DealScan dataset on WRDS, widely used in academic research on loan markets.

Wharton Research Data Services (WRDS) • Introductory • 4 min



Datastream via WRDS: Economics

VIDEO COURSE

Learn how to access historical values of economic indicators in Datastream via WRDS, including point-in-time data for accurate time-series analysis.

Wharton Research Data Services (WRDS) • Introductory • 5 min



Datastream via WRDS: Commodities

VIDEO COURSE

Introduction to retrieving commodity price data from Datastream through WRDS.

Wharton Research Data Services (WRDS) • Introductory • 3 min

Learn LSEG Data on WRDS

LSEG Research Data Guide

for Wharton Research Data Services (WRDS)

81 Research Topics · **20** LSEG Datasets

Search topics and datasets — e.g. covenants,

1 Browse common research topics **2** Explore related LSEG datasets **3** View coverage details

All data is accessed through WRDS; availability depends on your subscription.

Research Topics | Datasets

Datasets by research area

Dataset Role

■ **Core Data** — topic requires dataset ○ **Supporting Data** — ancillary for prices, controls, or matching records

▸ Show full dataset names

	LSEG I/B/E/S					Ownership & Insiders					SDC Platinum									
Research area	EST	GUI	KPI	AGG	FIN	OWN	13F	MFH	IFDF	DLS	MNA	NEW	JV	PE	MUN	DS	HF	ESG	FISD	DNB
Equity markets																				
Primary issuance	■				■							■		○		■				○
Valuation, earnings and expectations	■	■	■	○	■											■				
Ownership, governance and insiders					○	■	■	○	■							■				
Market for corporate control																				
Mergers and acquisitions	○				■	○	■				■					■				

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Research Topics | **Datasets**

Includes data coverage, details, and commonly supported research use cases.

Top 5 LSEG Datasets on WRDS

Fundamentals & Expectations

▾ Collapse

EST

LSEG I/B/E/S Estimates

Formerly Institutional Brokers' Estimate System; consensus and analyst-level detail files, plus recommendations and price targets.

Analyst estimates with consensus built only from same-basis underlying forecasts. The most widely used source of expectations data in accounting and finance, and the backbone of the forecast-accuracy, surprise and drift literatures.

Appears in 5 research areas	Core Data	Supporting Data
Primary issuance	1	—
Valuation, earnings and expectations	7	2
Mergers and acquisitions	—	1
Mutual funds and ETFs	1	—

History
from 1976

Files
detail, summary, unadjusted, recommendations, price targets

Level
analyst, broker, consensus

Watch Training Video

Resources

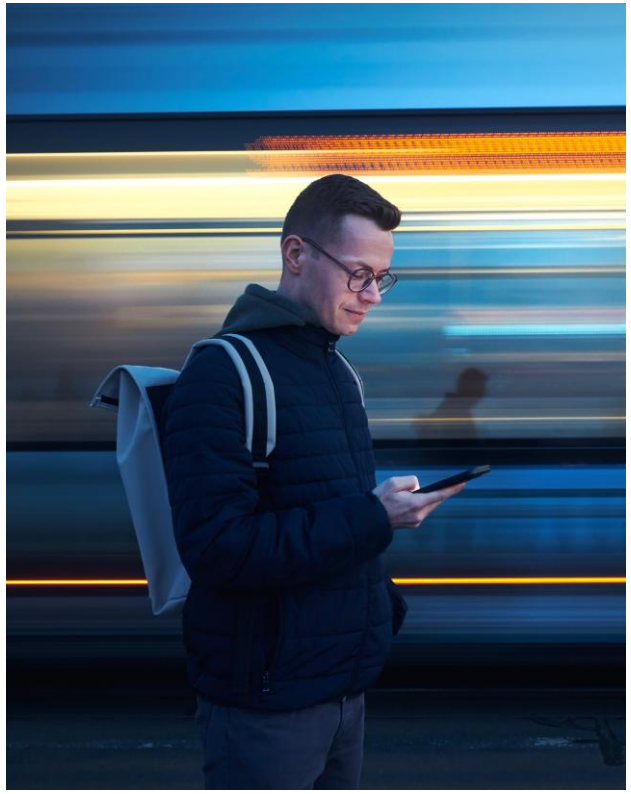
24x7

LSEG Academy
lseg.com/en/training/learning-centre

Customer Support
New support.lseg.com
myaccount.lseg.com

Developer Community
developers.lseg.com

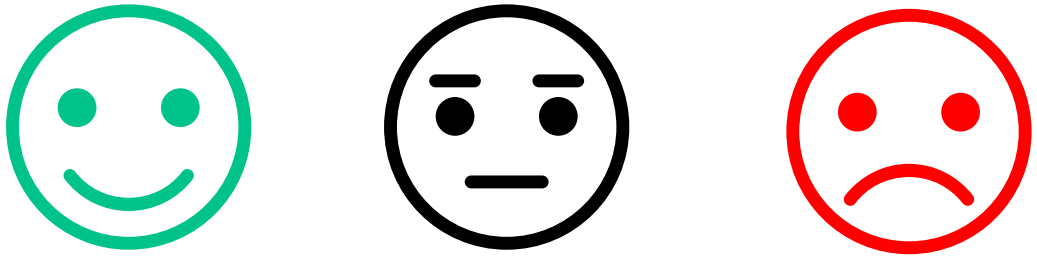
Global Phone Numbers
https://myaccount.lseg.com/en/phoneus





Survey

Please Tell us how we did



9-10
Score

7-8
Score

1-6
Score

