

Data via WRDS

London Stock Exchange Group



LSEG

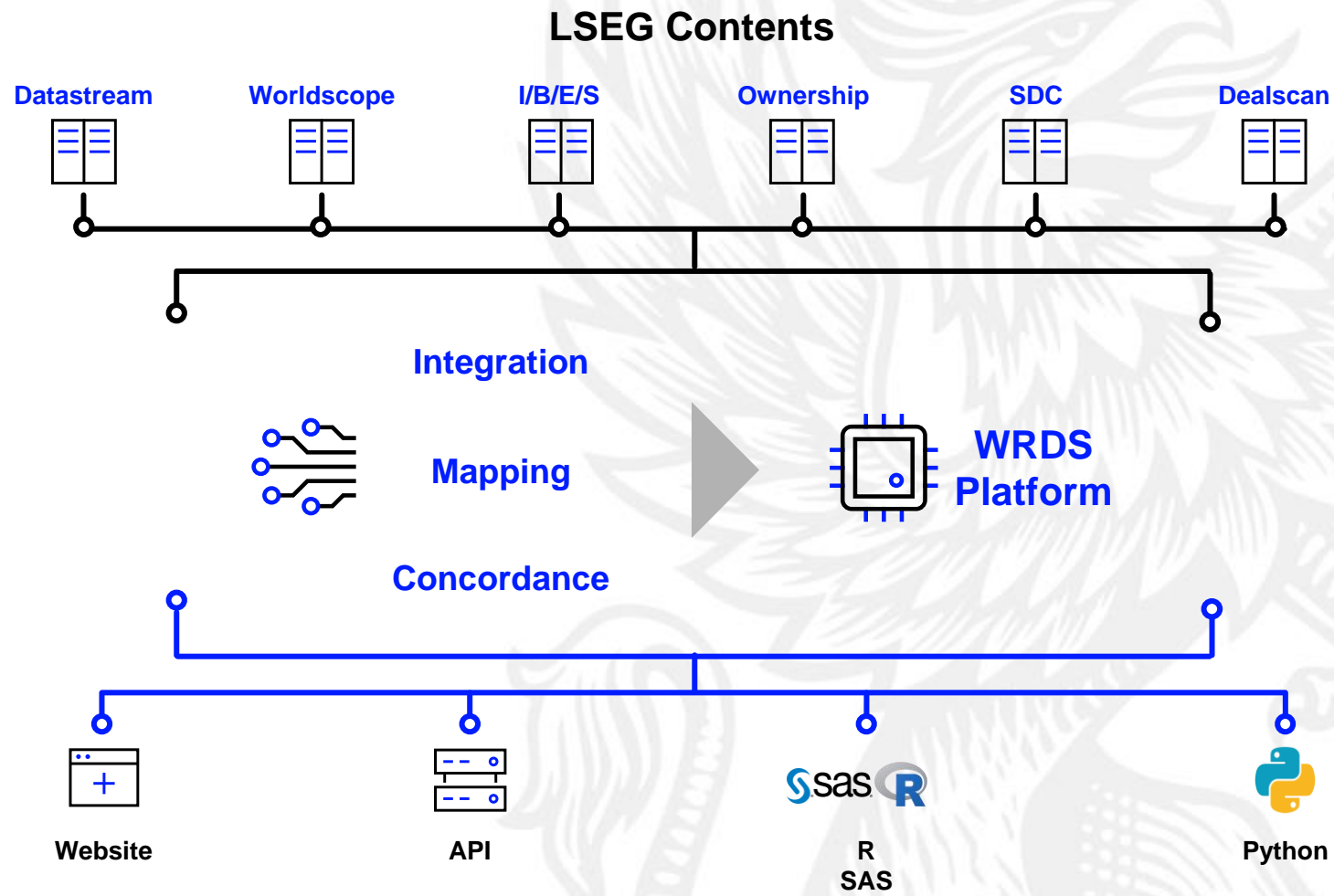


Wharton
UNIVERSITY of PENNSYLVANIA

wrds

WHARTON RESEARCH
DATA SERVICES

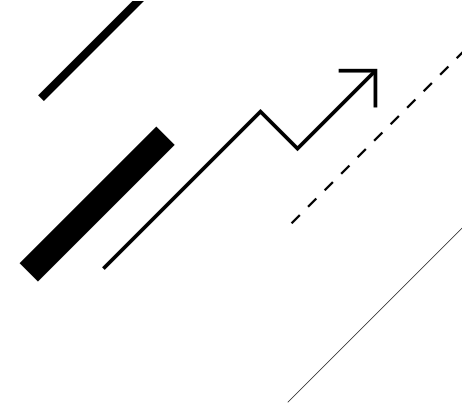
What do WRDS have



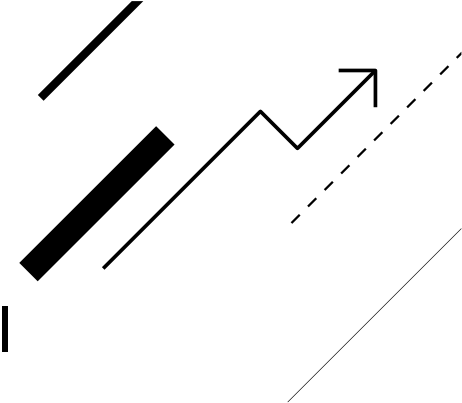
LSEG

Agenda

- I/B/E/S introduction
- Use cases in academia
- Use cases in industry
- WRDS – How to get help



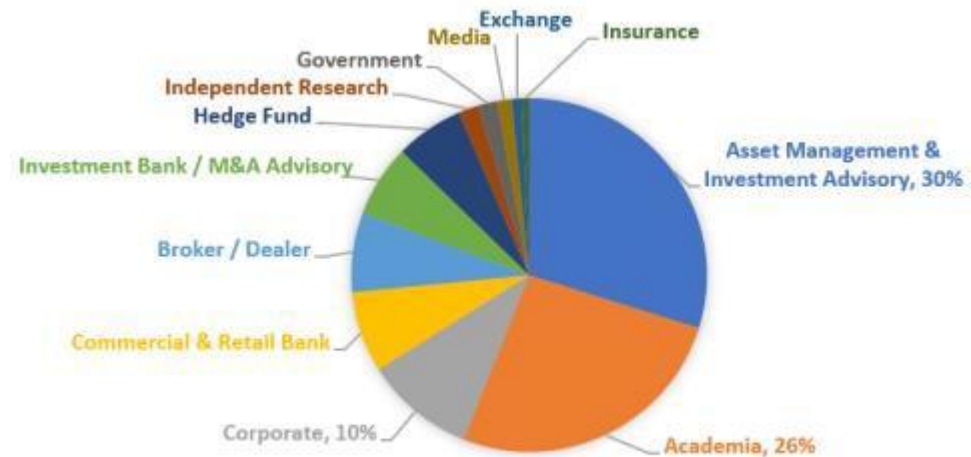
WRDS - I/B/E/S



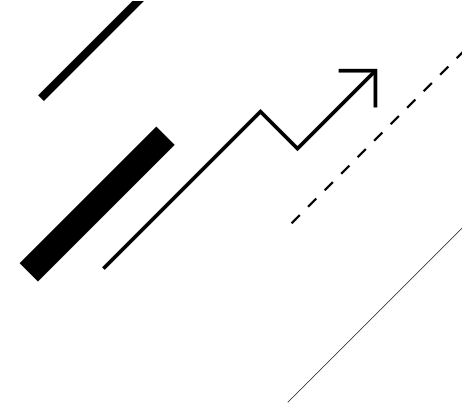
- The Institutional Brokers' Estimate System (I/B/E/S), Refinitiv's global database of earnings estimates for publicly traded companies
- Contains analysts' forecast histories for more than 20 company financial metrics, such as **EPS**, **revenue**, **target price**, **EBITDA** and **pre-tax earnings**
- Including **consensus estimates** and **detailed data**
- The database also includes brokerage firms' **operating recommendations** (buy/hold/sell)

WRDS - I/B/E/S

- History from 1976 for North American companies and 1987 for other markets
- More than 60,000 companies covered across 100 countries
- Active estimates on 22,000 companies from 900+ brokers



Number of account with IBES (%)



Template Single Measure/Single Period

Measure Earnings Per Share Period FY Dec-23 (This Year) Update

Next Earning Report: 23-Jan-2024

Earnings Per Share, FY Dec-23 (This Year)

SmartEstimate* Median High/Low Stock Price Change Indicators

▼ EARNINGS PER SHARE - Consolidated USD Per Share	
Custom Calculated Mean	\$ 3.15
SmartEstimate*	\$ 3.15
Mean	\$ 3.15
Predicted Surprise %	0.12%
Median	\$ 3.15
Low: \$ 2.56	High: \$ 3.60
Analyst Revision Summary	
4 of 32 estimates are new since:	30 Days Ago
Average Revision %:	-3.14%
Mean change since %:	-0.42%
Stock price change since 30 days ago %:	13.78%



BOFA GLOBAL RESEARCH	Murphy, Jonn J	★★★★★	3.12	-0.97%	3.15	19-Oct-2023	-	7.19%
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Estimates excluded from the Mean by LSEG (11 Analyst(s))

Contributor	Analyst	Earnings Accuracy	Current Estimate	% Difference From Mean	Previous Estimate	Estimate Date	Review Date	Smart Estimate Weight %
JEFFERIES	Houchois, Philippe	★★★★★	2.45	-22.24%	2.80	19-Nov-2023	-	-
GUGGENHEIM SECURITIES L...	Jewsikow, Ronal...	★★★★★	3.20	1.57%	3.28	03-Oct-2023	-	-
MIRAE ASSET DAEWOO	Park, Yeon Ju	insuf-hist	2.50	-20.65%	2.90	19-Oct-2023	-	-
BERNSTEIN	Sacconaghi, A.M....	insuf-hist	2.57	-18.43%	2.82	18-Oct-2023	05-Nov-2023	-
SPDB INTERNATIONAL SEC...	Shen, Tony	insuf-hist	2.83	-10.18%	1.94	21-Jul-2023	20-Oct-2023	-
HSBC	Tyndall, Michael J	insuf-hist	2.55	-19.13%	-	08-Nov-2023	-	-
CRISPIDEA PRIVATE LIMITED	Viswanath, Harvi...	insuf-hist	3.49	10.77%	3.38	08-May-2023	04-Aug-2023	-
SOUTHWEST SECURITIES	Wang, Xiangjie	insuf-hist	2.76	-12.40%	3.26	25-Oct-2023	-	-
HAITONG INTERNATIONAL R...	Yao, Barney	insuf-hist	2.57	-18.43%	2.61	19-Oct-2023	-	-
INDUSTRIAL SECURITIES	Yu, XiaoLi	★★★★★	3.60	14.26%	3.44	26-Apr-2023	-	-
Undisclosed	Undisclosed	insuf-hist	Undisclosed		Undisclosed	19-Oct-2023	-	-

WRDS - I/B/E/S

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

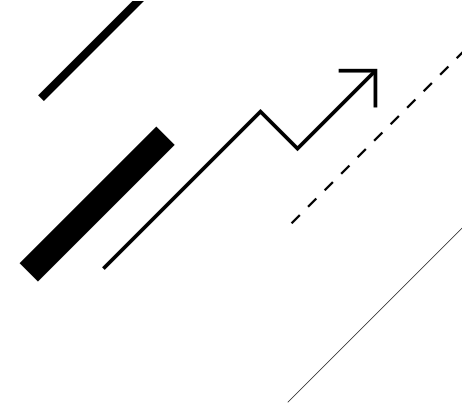
- » Daily Exchange Rate
- » EURO Exchange Rate
- » Monthly Exchange Rate
- » Report Currency

Recommendations

Analyst Estimates Global

Recommendations

- » Detail
- » Detail Identification
- » Stopped Recommendations
- » Summary Identification
- » Summary Statistics (Consensus Recomm...



WRDS - I/B/E/S

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

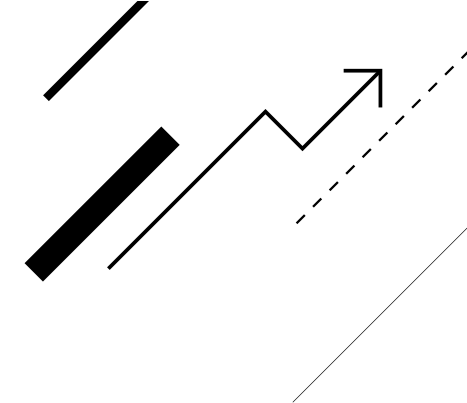
- » Actuals
- » Excluded Estimates
- » History
- » Price Target
- » Restated Actuals
- » Stopped Estimate

Unadjusted Summary

Analyst Estimates Global

Unadjusted Summary

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



WRDS - I/B/E/S

IBES Academic

IBES Academic

Analyst Estimates Global

» Detail History

9

» Information

4

» Recommendations

5

» Summary History

9

» Unadjusted Detail

6

» Unadjusted Summary

5

Detail History

Detail History

» Actuals

» Price Target

» Adjustments

» Restated Actuals

» Detail

» Stop Price Target

» Detail - Excluded Estimates

» Stopped Estimate

» Identifier

Detail History - Detail File with Actuals

Query Form

Variable Descriptions

Manuals and Overviews

Knowledge Base

Data Preview

Detail History - Detail File with Actuals

Step 1: Choose your date range.

The Forecast Period End Date is the ending month and year of the fiscal period to which the estimate applies. The Activation Date is the date that the forecast/actual was recorded by Thomson Reuters. The Announce Date is the date that the forecast/actual was reported. The Review Date is Most recent date that an estimate was confirmed as accurate. Note that for 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 estimates.

Date Variable:

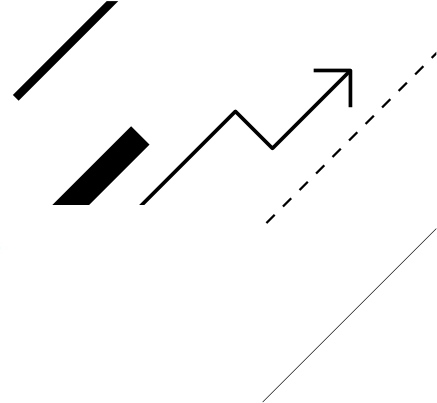
Announce Date, SAS Format (anndats)

2020-01

to

2023-06

WRDS - I/B/E/S



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. 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 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?

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

Select an option for entering your company codes:

Company Codes Code List Name

Please enter company codes separated by a space.

Save this code list to Saved C

Example: IBM MSFT AAPL

[Code Lookup: I/B/E/S]

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

Choose from your saved code lists.

Browse... Company Codes Upload File

Upload a plain text file (.txt), having one code per line.

Search the entire database

This method allows you to search the entire database of records. Please be aware that this method takes a long time to run because it is dependent upon the size of the database.

Measures (non-EPS may be sparse)

- 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)

- 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)

WRDS - I/B/E/S

Step 3: Choose query variables.

How does this work?

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

Select All

Search All

- Forecast Period End Date, SAS Format (FPEDATS)
- Activation Date, SAS Format (ACTDATS)
- Activation Time, SAS Format (ACTTIMS)
- Review Date, SAS Format (REVDATS)
- Review Time, SAS Format (REVTIMS)
- Announce Date, SAS Format (ANNDATS)
- Announce Time, SAS Format (ANNTIMS)
- Estimator (ESTIMATOR)
- Analyst Code (ANALYS)

Selected Clear All **(4)**

- Official Ticker (OFTIC)
- I/B/E/S Ticker (TICKER)
- CUSIP (8-digit) (CUSIP)
- Company Name (CNAME)

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)*

Custom Field *(Optional)*

Save This Query *(Optional)*

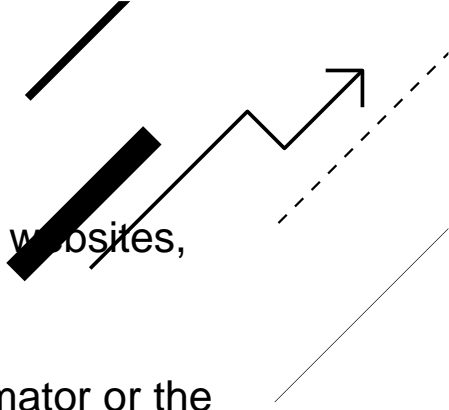
Notes on this Query *(Optional)*

WRDS - I/B/E/S

IBES Ticker Symbol	CUSIP/SEDOL	Official Ticker Symbol	Company Name	Activation Date, SAS Format	Contributing estimator code	Analyst Code	Primary/Diluted Flag (Estimate Level)	Forecast Period Indicator	Measure (Data Type Indicator)	Estimate Value	Cur
AAPL	03783310	AAPL	APPLE	1/3/2023	2283	71449	D	1	EPS	5.86	
AAPL	03783310	AAPL	APPLE	1/4/2023	930	191412	D	1	EPS	6.5	
AAPL	03783310	AAPL	APPLE	1/10/2023	3037	49552	D	1	EPS	5.82	
AAPL	03783310	AAPL	APPLE	1/17/2023	898	78750	D	1	EPS	6.07	
AAPL	03783310	AAPL	APPLE	1/17/2023	1951	107846	D	1	EPS	5.7	
AAPL	03783310	AAPL	APPLE	1/17/2023	3374	110208	D	1	EPS	6.36	
AAPL	03783310	AAPL	APPLE	1/19/2023	873	153096	D	1	EPS	6.1	
AAPL	03783310	AAPL	APPLE	1/20/2023	3322	183383	D	1	EPS	6.37	
AAPL	03783310	AAPL	APPLE	1/20/2023	2830	105094	D	1	EPS	6.18	
AAPL	03783310	AAPL	APPLE	1/22/2023	157	109581	D	1	EPS	6.01	
AAPL	03783310	AAPL	APPLE	1/24/2023	192	185400	D	1	EPS	6.09	
AAPL	03783310	AAPL	APPLE	1/26/2023	79	108299	D	1	EPS	5.39	
AAPL	03783310	AAPL	APPLE	1/27/2023	183	125669	D	1	EPS	5.73	
AAPL	03783310	AAPL	APPLE	1/30/2023	282	108607	D	1	EPS	5.78	
AAPL	03783310	AAPL	APPLE	1/30/2023	100	56181	D	1	EPS	6.07	
AAPL	03783310	AAPL	APPLE	2/1/2023	4201	119509	D	1	EPS	6.26	
AAPL	03783310	AAPL	APPLE	2/2/2023	282	108607	D	1	EPS	6.06	
AAPL	03783310	AAPL	APPLE	2/2/2023	228	133343	D	1	EPS	5.92	
AAPL	03783310	AAPL	APPLE	2/2/2023	3037	49552	D	1	EPS	5.87	
AAPL	03783310	AAPL	APPLE	2/2/2023	873	153096	D	1	EPS	6.05	
AAPL	03783310	AAPL	APPLE	2/2/2023	3322	183383	D	1	EPS	5.83	

WRDS - I/B/E/S

- Actuals: Actual values announced by listed companies (source: public company reports, official company websites, news media)
- Measure: Estimated items, e.g. EPS is the most popular estimate
- Announce Date: Announcement Date is the date when the forecast or actual value is announced by Estimator or the company
- Activation Date: The activation date is the date on which the forecast or actual value is recorded by Refinitiv
- Forecast Period End Date: The last day of the forecast period, e.g., the last day of the fiscal year for 70% of companies is December 31st
- Forecast Period Indicator: For example, if 2021 is the most recent fiscal year for which financial results have been reported, FPI=1,2,3 for fiscal years 2022, 2023, and 2024, respectively
- Primary/Diluted Flags: appear in the stock forecast history database
- Primary/Diluted Indicator: appears in the identifier file (company level)
- Adjusted/Unadjusted: Forecasted items and price per share are adjusted for stock splits
- Estimator (Broker): Sell-side organization or forecast provider (3000+)
- Analyst: Analyst at the sell-side organization making the forecast (30000+)
- Estimate: Analyst's estimate of the company's projects for the coming period
- Detail Estimate: Estimates of individual analysts
- Consensus(Summary) Estimate: Average of all valid analysts' estimates for a specific company, time period (daily or monthly)



WRDS - I/B/E/S - Academia

TSLA.O TESLA INC 241.2 c USD Vol 992,435 CAM 2 CCR 70
TSLA.O TESLA INC 241.2 c USD Vol 1,135,368 CAM 2 CCR 70 Updated: 22-Nov-2023 21:22:1
United States | NASDAQ Global Select Consolidated | Auto & Truck Manufacturers Forecast Multiples MUL

[Overview](#) [News & Research](#) [Price & Charts](#) [Estimates](#) [Financials](#) [ESG](#) [Event](#) [Ownership](#) [Debt & Credit](#) [Peers & Valuation](#) [Derivatives](#) [Filings](#)

[Multiples](#) [Momentum](#) Excel Model

MARKET DATA		CURRENT RECOMMENDATION			CURRENT TARGET PRICE & LT GROWTH			RELATED APPS
LAST	241.2	MEAN	2.77	HOLD	CURRENCY	USD	Statement View	
52WK HIGH	299.29	STRONG BUY	5		MEAN	224.9	Recs & Target Price	
52WK LOW	101.81	BUY	13		# OF ESTIMATES	38	Company Guidance	
UPSIDE	-6.76	HOLD	21		HIGH	380	Earnings Season	
MKTCAP (M)	766,756	SELL	4		LOW	24.33	Aggregates	
EV (M)	746,101	STRONG SELL	4		STD DEV	77.83		

ESTIMATES SUMMARY (MEAN)							
Financial Period Relative	LTM	NTM	FY-1	FY0	FY1	FY2	FY3
Period End Date	2023-11-22	2023-11-22	2021-12-31	2022-12-31	2023-12-31	2024-12-31	2025-12-31
REVENUE	95818	115817	53823	81462	97123	117516	142763
GROSS INCOME	18262	23272	14027	20997	18013	23750	31751
EBITDA	16056	19377	11621	19186	15771	19705	27085
EBIT	10667	12843	8644	15216	10253	13078	19230
PRE-TAX PROFIT	11516	14179	8464	15307	11171	14452	19861
NET INCOME	12538	13244	7654	14144	10665	13479	18375
PREFERRED EARNINGS	3.23	3.81	2.26	4.07	3.15	3.87	5
EPS - REPORTED	2.73	3.36	1.63	3.62	2.65	3.42	5.04
FREE CASH FLOW	4526	6184	3483	7552	4251	6359	4269

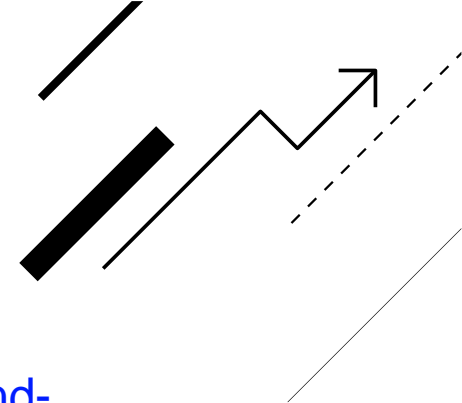
Actual/Predicted Surprise %	16.33%	-10.33%	1.23%	0.77%	0.13%	0.05%
EBITDA	5,817	11,621	19,186	15,782	19,730	26,679

WRDS - I/B/E/S - Academia

I/B/E/S + Pricing

Post-Earnings Announcement Drift

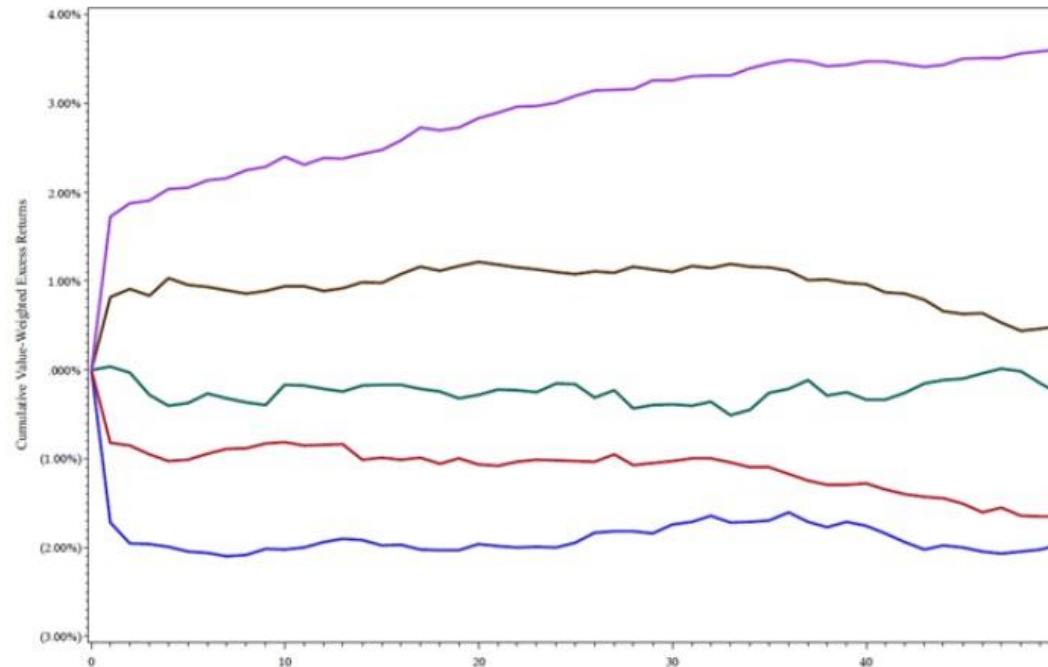
<https://wrds-www.wharton.upenn.edu/pages/wrds-research/applications/portfolio-construction-and-market-anomalies/post-earnings-announcement-drift/>



S&P 600 SmallCap firms

CARs following EAD for analyst-based SUE portfolios

Sample: S&P 600 SmallCap members, Period: 1990-2011



WRDS - I/B/E/S - Industry



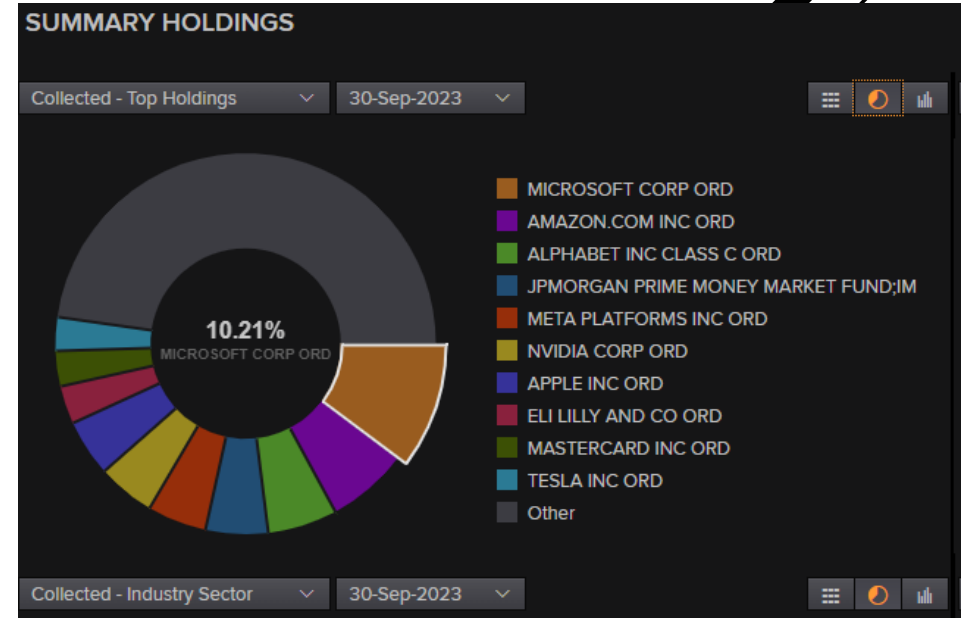
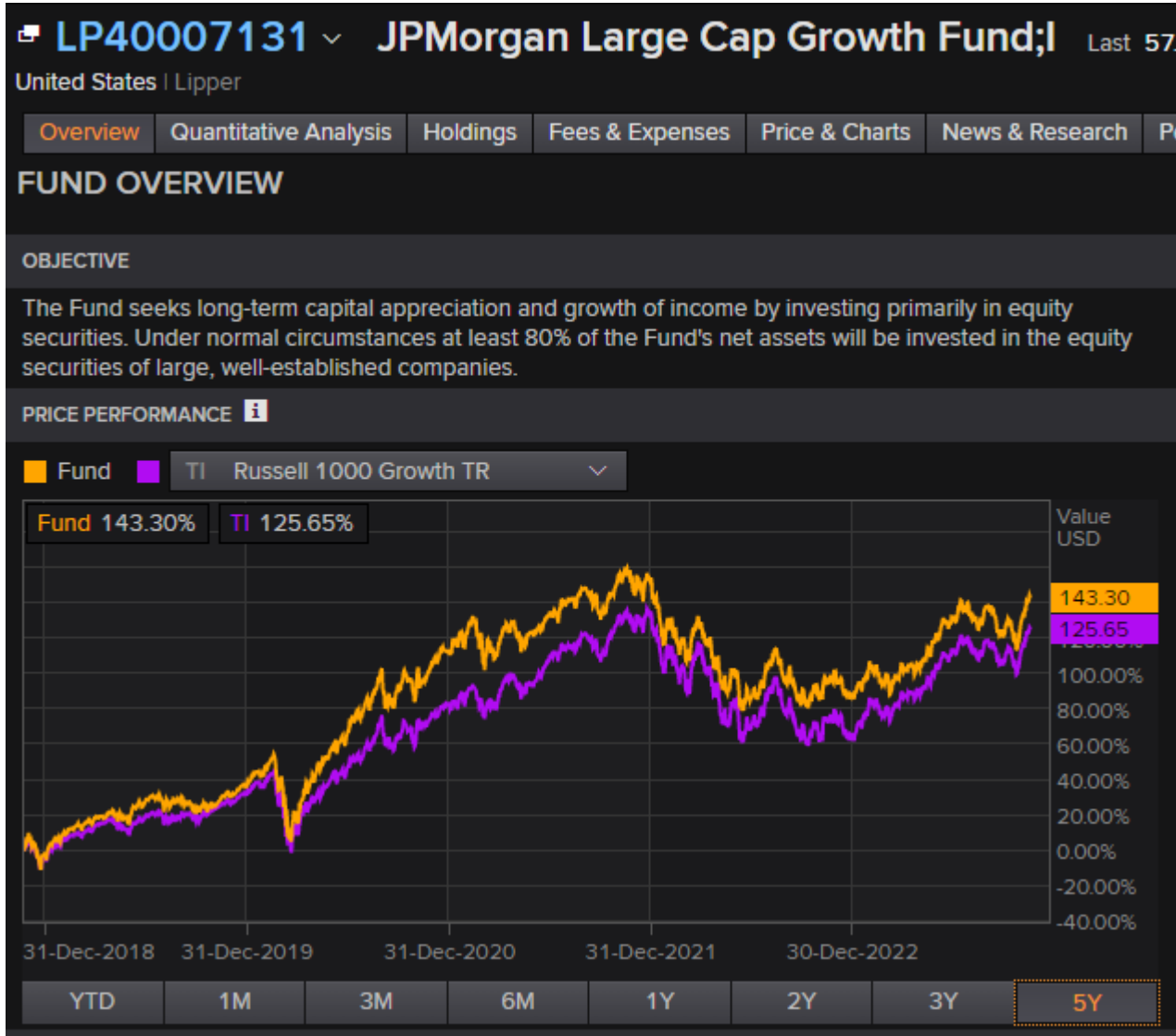
RECOMMENDATION & PRICE TARGET DETAIL ⓘ

Contributor	Analyst	Current Recommendation	Rec. Date	Review Date	Analyst Rec. Rating		Price Target	% Diff from Current Price	Price Target Date	LTG %	
					Overall	TSLA.O					
MORGAN STANLEY	Jonas, Adam	▲ 2-OVERWT/IN-LINE	10-Sep-2023	25-Oct-2023	★★★★★	★★★★★	▼ 380.00	57.55%	19-Oct-2023	-	🏠
MIRAE ASSET DAEWOO	Park, Yeon Ju	1-BUY 📄	21-May-2021	19-Oct-2023	★★★★★	★★★★★	▼ 320.00 📄	32.67%	19-Oct-2023	-	🏠
Undisclosed	Undisclosed	---	-	-	★★★★★	★★★★★	▼ 310.00	28.52%	18-Oct-2023	-	
WEDBUSH SECURITIES INC.	Ives, Daniel H	▲ 1-OUTPERFORM 📄	09-Apr-2021	19-Oct-2023	★★★★★	★★★★★	▼ 310.00 📄	28.52%	19-Oct-2023	-	🏠
KGI GREATER CHINA	Liang, Jennifer	▲ 1-OUTPERFORM 📄	12-Jun-2023	19-Oct-2023	★★★★★	★★★★★	▼ 309.00 📄	28.11%	03-Oct-2023	-	🏠
RBC CAPITAL MARKETS	Narayan, Tom	▲ 2-OUTPERFORM 📄	12-Jun-2022	20-Nov-2023	★★★★★	★★★★★	▼ 301.00 📄	24.79%	19-Oct-2023	-	🏠
ROBERT W. BAIRD & CO., INC.	Kallo, Ben J	▲ 1-OUTPERFORM	22-Oct-2020	24-Oct-2023	★★★★★	★★★★★	▲ 300.00	24.38%	17-Jul-2023	-	🏠
CHINA INTERNATIONAL CAPITAL CORPORATION (HONG KONG) LIMITED	Xue, Deng	2-OUTPERFORM 📄	05-Jan-2023	22-Oct-2023	★★★★★	★★★★★	▲ 295.00 📄	22.31%	20-Jul-2023	-	🏠
PIPER SANDLER COMPANIES	Potter, Alexander E	▲ 2-OVERWEIGHT	10-Apr-2017	20-Nov-2023	★★★★★	★★★★★	▲ 295.00	22.31%	19-Nov-2023	-	🏠
BOFA GLOBAL RESEARCH	Murphy, John J	▲ 3-NEUTRAL	14-Aug-2020	19-Oct-2023	★★★★★	★★★★★	▼ 290.00	20.23%	19-Oct-2023	8.30% X	🏠
CRISPIDEA PRIVATE LIMITED	Viswanath, Harvind	▼ 3-HOLD 📄	04-Aug-2023	-	★★★★★	★★★★★	▲ 285.00 📄	18.16%	04-Aug-2023	-	🏠
SPDB INTERNATIONAL SECURITIES LIMITED	Shen, Tony	3-HOLD 📄	21-Jul-2023	20-Oct-2023	★★★★★	★★★★★	275.10 📄	14.05%	21-Jul-2023	-	🏠

PEER ANALYSIS FOR TESLA INC (TSLA.O)

Identifier (RIC)	Company Name	EV / Revenue (SmartEstimate [®]) (NTM)	EV / EBITDA (SmartEstimate [®]) (NTM)	Price / EPS (SmartEstimate [®]) (NTM)	Price / Cash Flow Per Share (SmartEstimate [®]) (NTM)	Price / Book Value Per Share (SmartEstimate [®]) (NTM)	Price / Revenue (SmartEstimate [®]) (NTM)	Dividend Per Share Yield % (SmartEstimate [®]) (NTM)
<input type="checkbox"/> TSLA.O	Tesla Inc	6.46	38.46	63.23	43.34	12.05	6.64	0.0%
<input type="checkbox"/> F.N	Ford Motor Co	0.85	8.73	6.15	4.72	0.85	0.24	6.3%
<input type="checkbox"/> MBGn.DE	Mercedes Benz Group AG	0.96	6.13	4.93	3.27	0.64	0.41	8.3%
<input type="checkbox"/> VOWG_p.DE	Volkswagen AG	0.71	4.76	3.58	1.67	0.30	0.18	8.2%
<input type="checkbox"/> SPWR.OQ	SunPower Corp	0.56	20.02	NA	NA	1.95	0.44	0.0%
<input type="checkbox"/> RUN.OQ	Sunrun Inc	5.62	NA	NA	NA	0.40	1.04	0.0%
<input type="checkbox"/> SIEGn.DE	Siemens AG	1.84	9.81	13.86	10.11	2.20	1.45	3.4%
<input type="checkbox"/> 051910.KS	LG Chem Ltd	0.93	6.43	12.67	4.87	1.10	0.59	2.2%

WRDS - I/B/E/S – Industry (Quant)



Excess growth of \$100,000 over 10 years

Compared to benchmark and category average, in thousands (difference vs. benchmark)

- JPMorgan Large Cap Growth I Shares
- Russell 1000 Growth Index
- Morningstar category average



WRDS - I/B/E/S – Industry (Quant)

CNBC

SBUX.O STARBUCKS CORP

United States | NASDAQ Global Select Consolidated | Restaurants & Bars

Overview News & Research Price & Charts **Estimates** Financials ESG Event Ownership Debt & Credit Peers & Valuation Derivatives Filings

Template Single Measure/Multi-Periods

Measure Earnings Per Share Periodicity Annual & Interim Update

▼ EARNINGS PER SHARE - Consolidated USD Per Share ⓘ

	FY 2023					FY 2024		HISTORICAL
	Q1 Dec-22	Q2 Mar-23	Q3 Jun-23	Q4 Sep-23	FY Sep-23 ***	Q1 Dec-23	Q2 Mar-24	
	# Estimates	27	25	27	28	31	25	26
SmartEstimate®	0.78	0.65	0.95	0.97	3.46	0.93	0.77	
Mean	0.77	0.65	0.95	0.97	3.45	0.93	0.79	
Predicted Surprise %	0.70%	0.42%	0.23%	0.07%	0.09%	-0.16%	-3.08%	
High	0.81	0.71	1.00	1.02	3.49	1.01	0.90	
Low	0.70	0.60	0.92	0.90	3.38	0.86	0.68	
Guidance	-	T	T	-	3.40	-	-	
Actual	0.75	0.74	1.00	1.06	3.54	0.90	0.68	

EARNINGS PER SHARE ESTIMATE DETAILS ⓘ

It's difficult to come on air and say things are good. I would have called for more of a truth and reconciliation discussion because you can't go from plus 15% - 20% projection to these numbers.

Starbucks stock is now trading at roughly the same price at which it did some five years ago.

STARMINE ANALYST REVISIONS MODEL

MODEL SUMMARY ⓘ

COMPONENTS

7	in North America [100=best]	Revenue				
7	in United States of America	EBITDA				
9	in Consumer Cyclical	EPS				
8	in Automobiles & Auto Parts	Recommendation				

1-10 11-30 31-70 71-90 91-100



COMPONENT DETAILS	Component Score	Current Quarter (FQ Dec-23)		Current Year (FY Dec-23)		Next Year (FY Dec-24)	
		Blended Mean Change	Predicted Surprise	Blended Mean Change	Predicted Surprise	Blended Mean Change	Predicted Surprise
Revenue	20	-2.3%	-0.1%	-1.2%	-0.1%	-2.7%	-0.3%
EBITDA	16	-6.4%	-2.0%	-3.8%	+0.1%	-7.1%	+0.1%

90d 60d 30d 14d 7d

WRDS – How to get help

Resources:

WRDS Research:

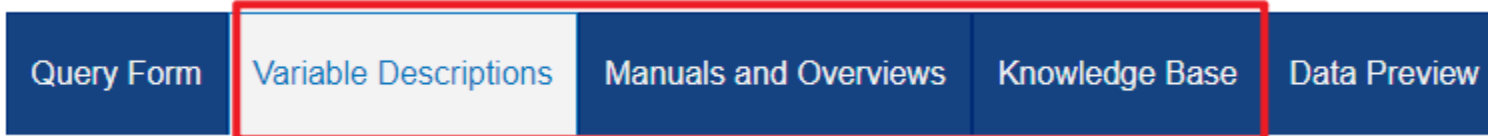
<https://wrds-www.wharton.upenn.edu/pages/wrds-research/>

Variable Desc / Manuals / Knowledge Base

<https://wrds-www.wharton.upenn.edu/pages/about/data-vendors/thomson-reuters/#products>

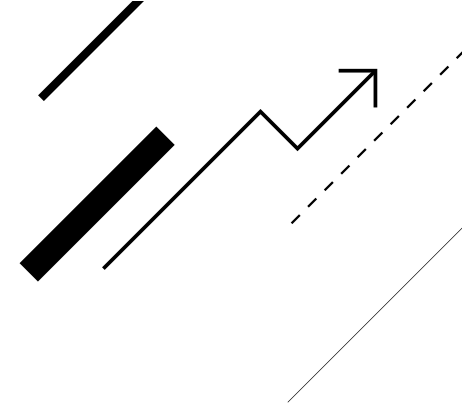
<https://wrds-www.wharton.upenn.edu/pages/support/manuals-and-overviews/>

<https://wrds-www.wharton.upenn.edu/pages/support/support-articles/>



WRDS API:

<https://wrds-jupyter.wharton.upenn.edu/>

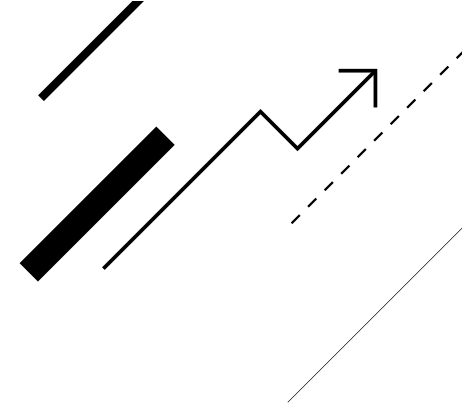


WRDS – How to get help

WRDS support:

wrds-support@wharton.upenn.edu

Emergency contact (your CSM): liam.li@lseg.com



Thank You

May 10, 2024



LSEG

