

James Perkins

Director of Customer & Solutions Learning
Global Data, Feeds & Analytics

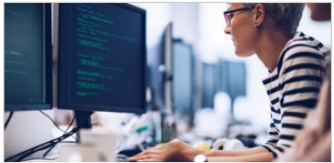
How to Optimise Financial Data for **AI: Tools, Techniques, and Use Cases**



About **LSEG** Academy

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- **Instructor-Led Classes:** Interactive, multiple languages
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Trade Compliance

Store all your trades, media chats with a full 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

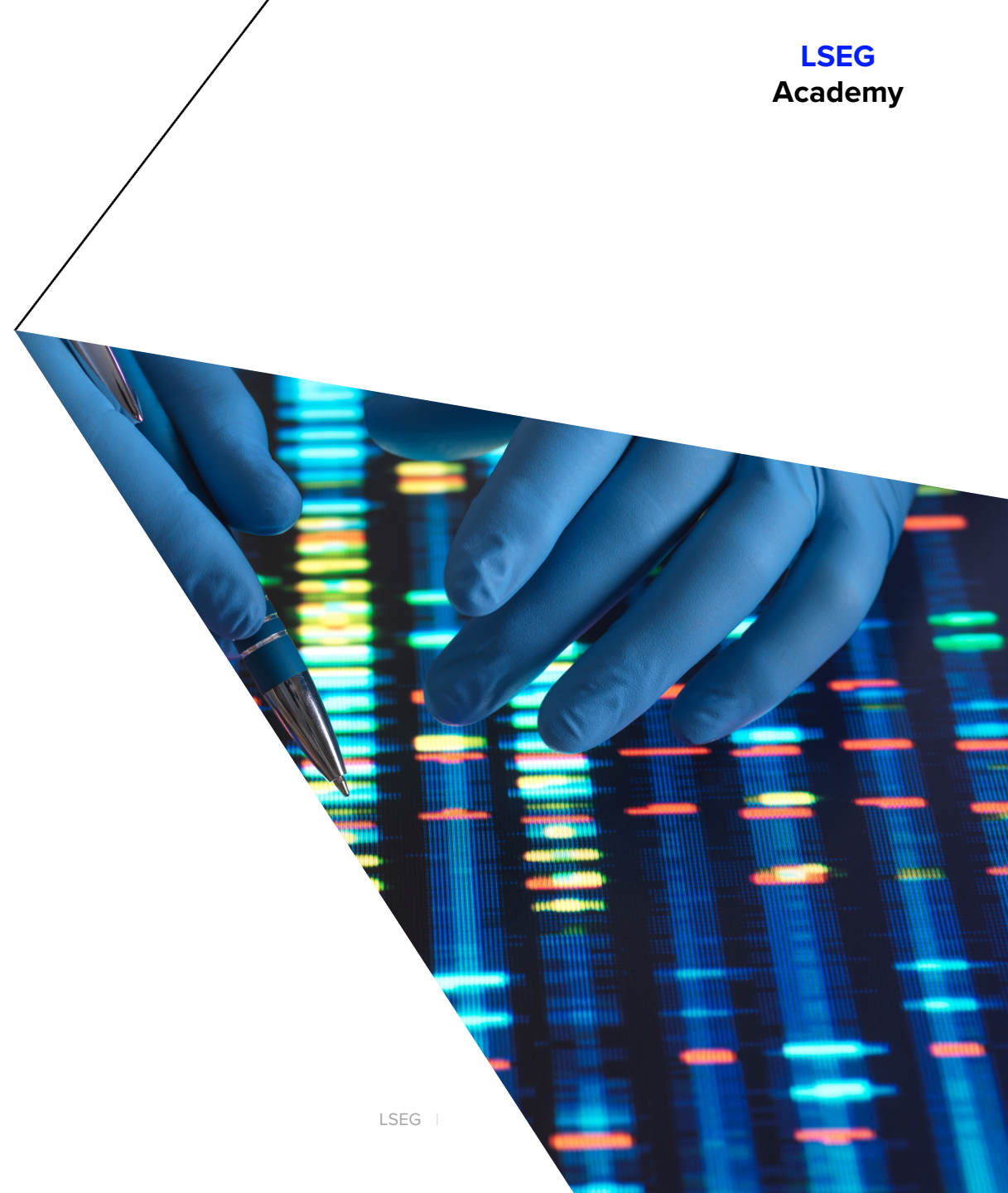
VIDEO COURSE

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

Workspace • Continuous Learning • ⌚ 44 min

Agenda

-
1. Financial Data & Analytics AI Landscape
 2. Financial AI – Hype vs. Reality
 3. Optimising Financial Data for AI
 4. AI Data and Technology Requirements
-



Resources

LSEG Academy

lseg.com/en/training/learning-centre

Data Catalogue

lseg.com/en/data-analytics/financial-data

Data Discovery

datadiscovery.lseg.com

24x7

Customer Support

New support.lseg.com
myaccount.lseg.com

Developer Community

developers.lseg.com

Global Phone Numbers

myaccount.lseg.com/en/phoneus





Financial Data & Analytics

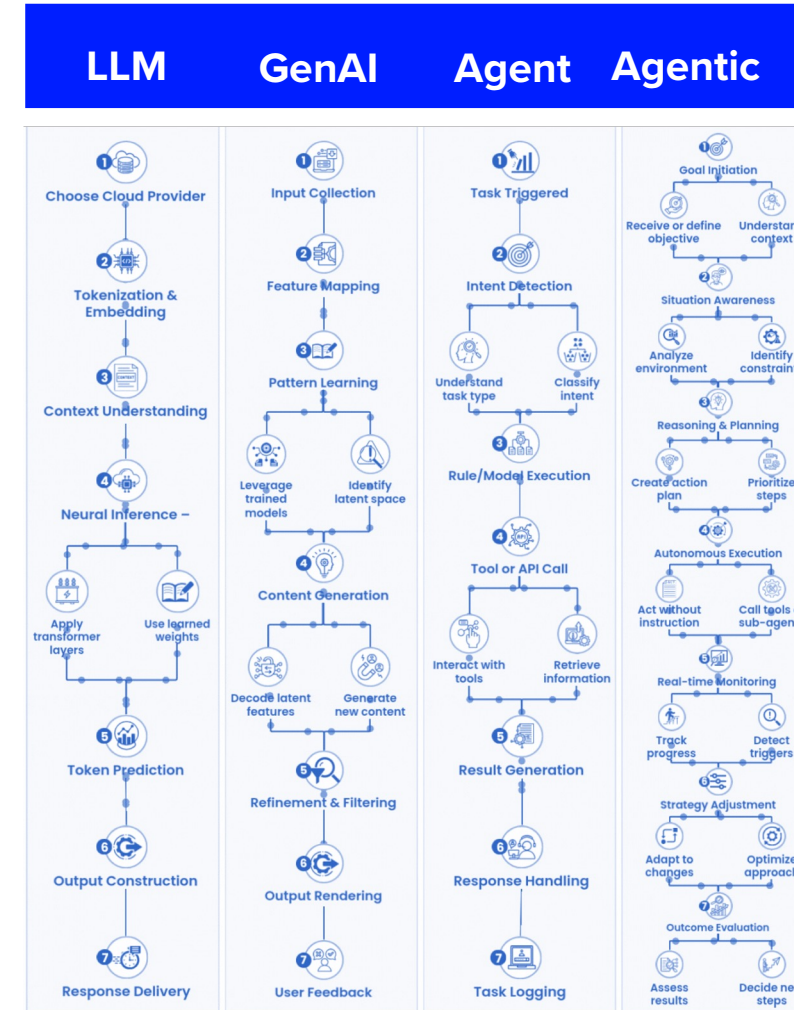
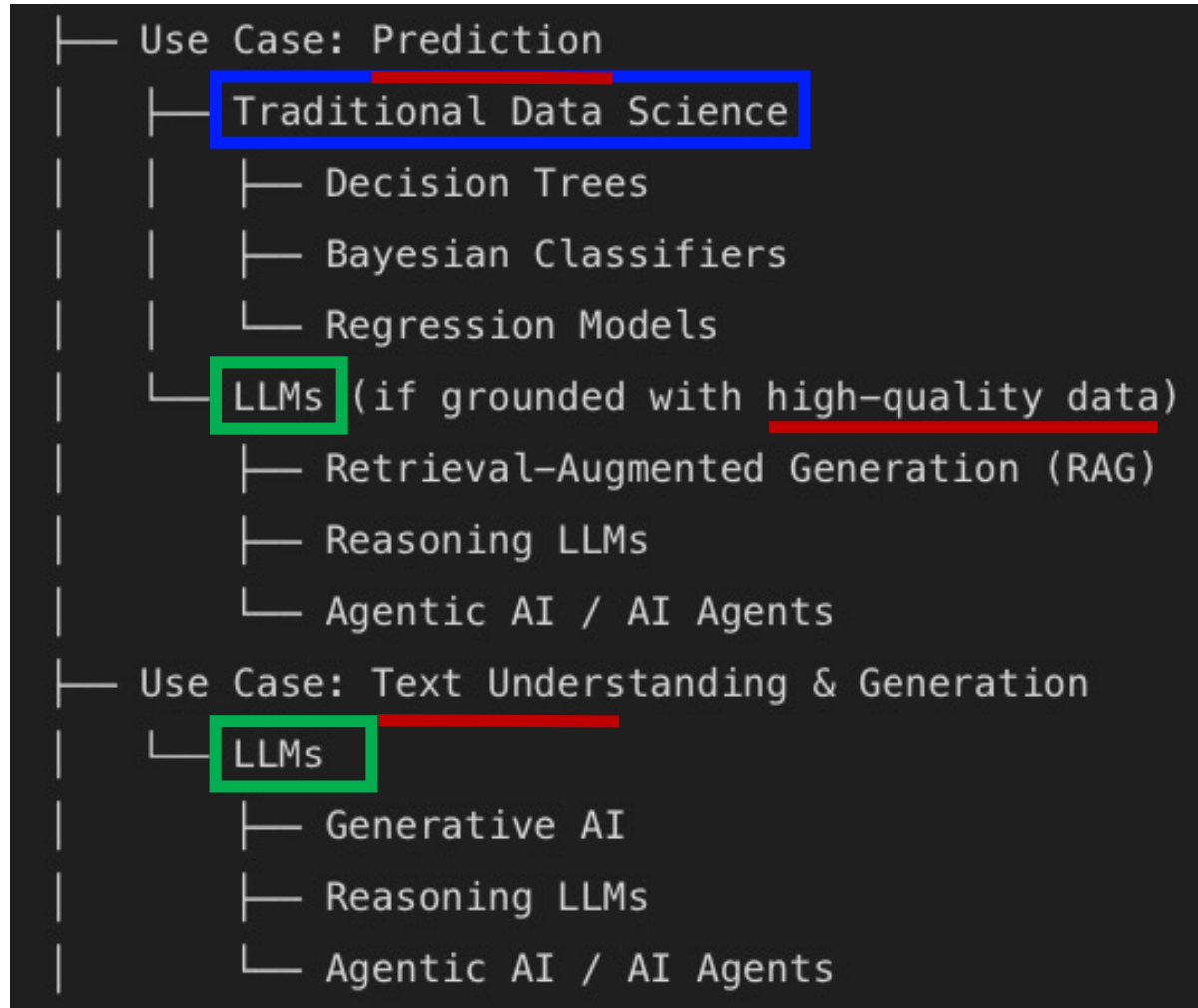
AI Landscape

LSEG

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Defining Artificial Intelligence (AI)



"AI" has a range of definitions

Financial Data Catalogue


An Industry View

Data Categories

Macroeconomic
Pricing & Reference
Unstructured Text
Company
Risk Intelligence
Analytics

Instrument Types

- Bonds
- Loans
- Currencies
- Commodities
- Indices
- Economic
- Equities
- Funds
- Futures
- Options
- Interest Rates
- Warrants
- Synthetic
- Hybrid
- Entities
- Vessels
- People



Data Types

- Date Time
- Integer
- Percentage
- Float
- String

Field	Id	Value
X_CURRENCY	-11	2008
X_RIC_NAME	-1	LSEG.L
PROD_PERM	1	5,625
RDNDISPLAY	2	115
DSPLY_NAME	3	LON.STK.EXCH
RDN_EXCHID	4	LSE
TRDPRC_1	6	9,576.00
TRDPRC_2	7	9,552.00
TRDPRC_3	8	9,548.00
TRDPRC_4	9	9,674.00
TRDPRC_5	10	9,674.00
NETCHNG_1	11	-152.00
HIGH_1	12	9,692
LOW_1	13	9,506
PRCTCK_1	14	↑
CURRENCY	15	GBp

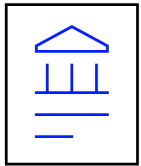
[LSEG D&A Data Catalogue](#)

Financial Data & Analytics AI

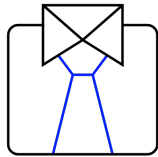
Practice and segmentation

- Data Science
- Quantitative Analysis
- Quantitative Trading
- Algorithmic Trading
- Risk Management
- Compliance
- Financial Analysis
- Data Visualization
- Cloud Architecture
- Software Development
- Database Engineering
- Project Management
- Data Consulting
- Business Management

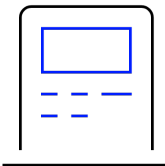
Banks



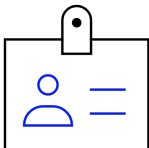
Investment Banking



Buy-side



Wealth



Corporates



Focus on Data

60k terabytes of data stored
14m financial price updates per second
1.45m merger and acquisition deals
142m company financial data points per year
15m + economic time series

Global Presence

40k customers, 400k users, 170 countries

Partnerships and Brands



Cloud Collaborative



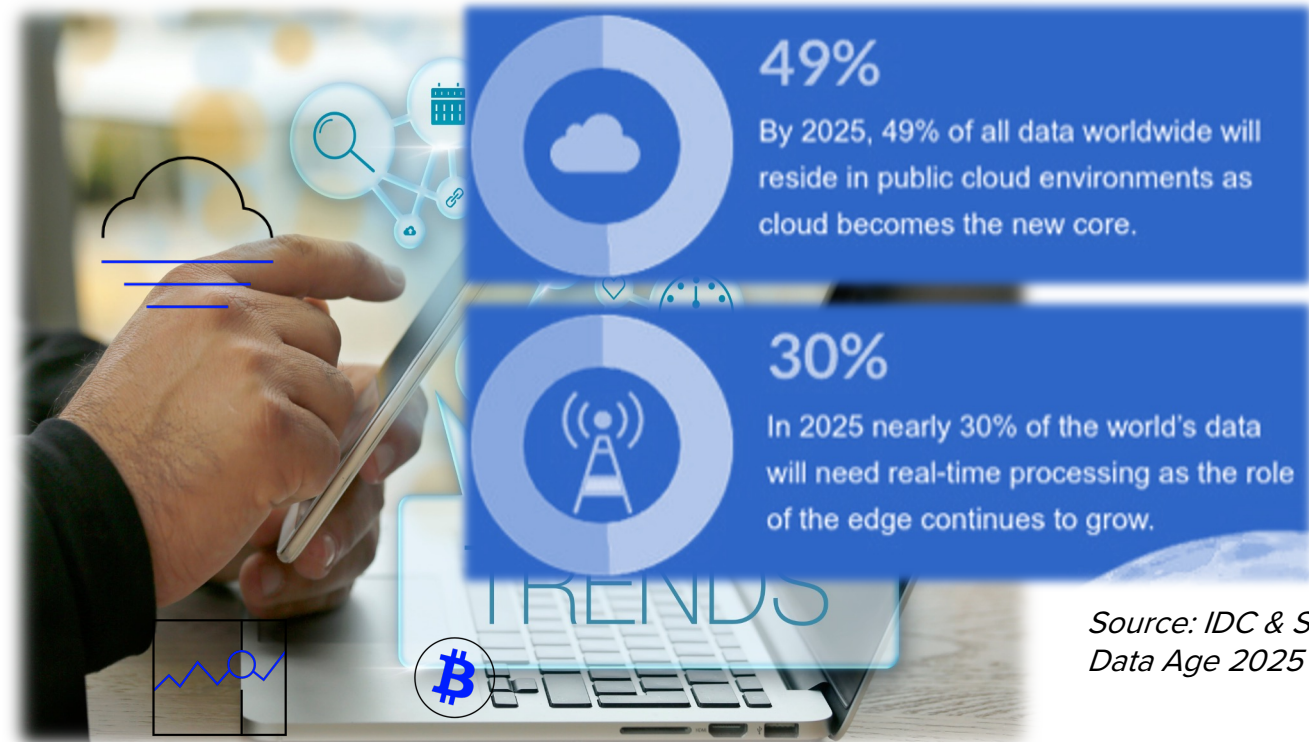
Data & Tech Expertise

Managed services, consulting, data and technology SMEs

Data & Analytics Trends

Where are the shifts?

- Cloud migration
- Liquidity fragmentation
- Algo trading
- Sustainable finance
- Crypto & digital assets
- Risk-free rates (RFRs)
- Regulatory mandates
(MiFID, Basel 3.1 / FRTB, DORA, SFDR, 2a-5)
- EU AI Act
- Alt data demand



*Source: IDC & Seagate
Data Age 2025*



Financial AI

Hype vs. Reality

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Financial **AI+ Themes**

How AI Is Growing Fast On Wall Street

JP Morgan

Investment Banking & Risk

- **LLMs** automating tasks: email, research, creation.

Risk Management

- AI models forecast exposure to **interest rate, credit, and liquidity risks**, aiding compliance with stress-testing regulations. [Forbes](#)

Morgan Stanley

Wealth & Investment Advisory

- OpenAI GPT-4-PA, supports FAs.
- Attends meetings, takes detailed notes, drafts emails. - [CNBC](#)

Goldman Sachs

- GenAI assistant to bankers, traders and asset managers. [CNBC](#)



*“The AI revolution will cut nearly **\$1 trillion a year** out of S&P 500 budgets, Morgan Stanley says”.*

[Fortune](#)

*“global investment banks can boost their front-office productivity by as much as **27%–35%** by using generative AI.” [Deloitte](#)*

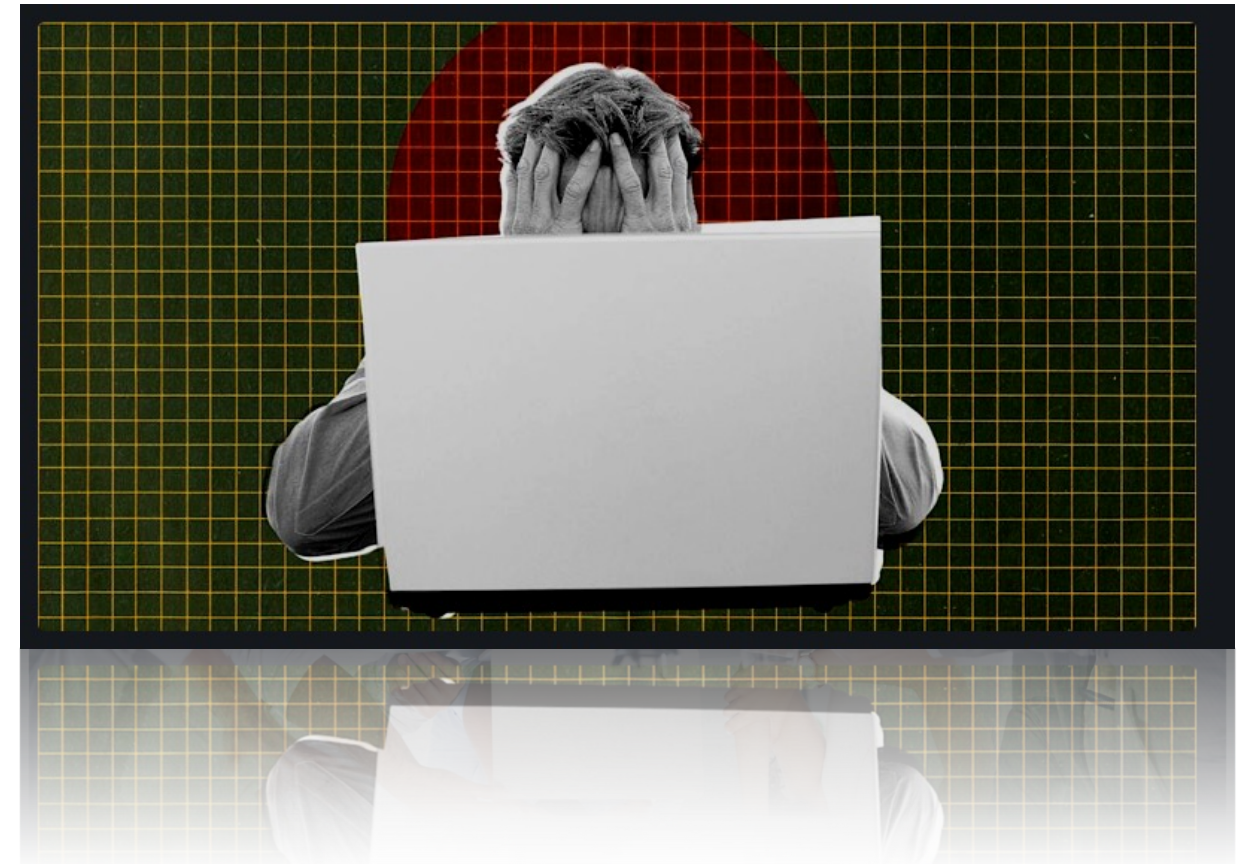
Financial AI- Themes

What's not being highlighted

- Up to 85% of AI projects in finance fail—mainly due to **data issues, talent gaps, and misaligned strategies**. Source: [ProPair/RedPoint Research](#), [Forbes](#)
- [Challenges Stalling AI Implementation In The Financial Sector](#). Source: [Forbes](#)
- 30% GenAI projects **abandoned** after POC due to **data quality**. Source: [Gartner](#)
- Early financial GenAI chatbots **prone to hallucinations** (nonexistent inferences) due to **low quality or incomplete data** (increasing regulatory and reputational risk). Source: [Moody's](#)

“There’s a lot of success theater out there when it comes to applying artificial intelligence in banking”

Source: [CNBC](#)



“AI Is Failing at an Overwhelming Majority of Companies Using It, MIT Study Finds” [Futurism](#)

Financial AI - Data



“without the right data, even the best algorithms can deliver mediocre, or worse, misinformed results.”

David Schwimmer Chief Executive Officer, LSEG

[World Economic Forum](https://www.weforum.org/agenda/2018/05/lseg-ceo-david-schwimmer-on-the-future-of-capital-markets/)

Top AI Data Sources

Model Challenges

- Low signal-to-noise ratio
- Informal language
- Context fragmentation
- Demographic skew
- Echo chambers
- Licensing
- User consent
- Redundancy

**Andrew**

Banking w

This is very dangerous. Reddit rewards high volume user activity but a very small group of moderators rule many large popular subreddits with an iron fist.

Like · 2 | Reply

**Michael**

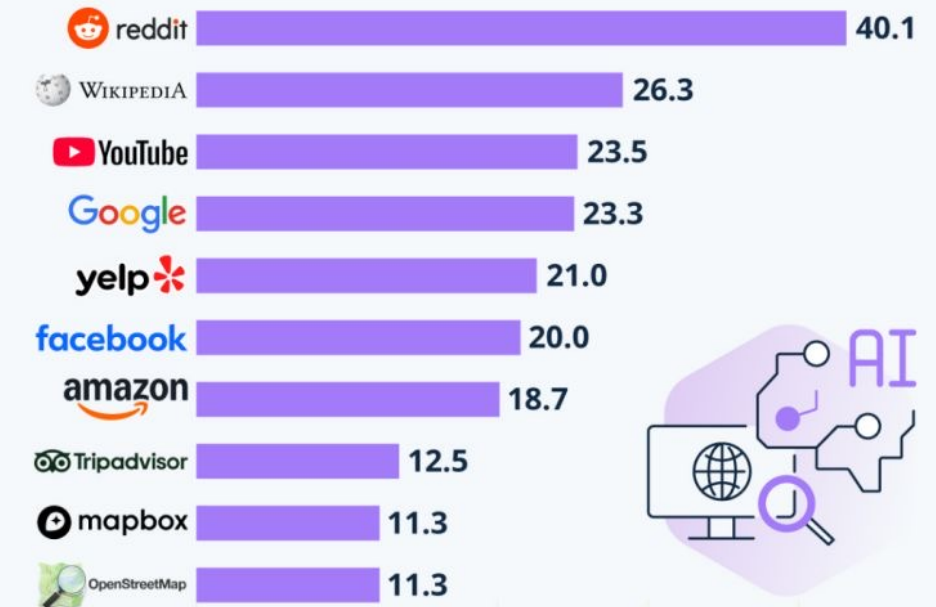
Director o

You can't even use Reddit or Wikipedia in academia or in credentialed publications.

Like · 1 | Reply

Where AI Gets Its Info: Top Sources 2025

Top 10 web domains cited by large language models (LLMs) in June 2025* (in %)



* Google's AI Mode, AI overviews, ChatGPT and Perplexity
Based on 150 thousand citations from 5,000 randomly selected keywords from Semrush database.
Source: [semrush](https://www.semrush.com)

Financial Data - Expertise

Across **equity and fixed income** are the implications of **corporate actions** understood?

Are nuances like **trade qualifiers** being captured in **trading** models?

For **futures and options** are **contract rollover adjustments** being made?

Does the model consider **regional market holidays** and **time difference**?

For **volatilities** are the right interest rate curves and **dividend assumptions** being made?

For **commodities** have seasonal adjustments been made to the data?



Financial data has unique nuances



How to Optimise Financial Data for **AI: Tools, Techniques, and Use Cases**

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Optimising Macroeconomic Data for AI

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Macroeconomic Data

Understanding the global economy

Local Date	Count down	Local Time				Indicator Name	Period	Reuters Poll	Actual	Surprise	Prior	Revised	Min	Max	Count	Smart Econo...	Predict... Surprise	
2 Aug		08:30	≈			18.2 12.0	Non-Farm Payrolls	Jul	175k	114k	-61.0k	206k	179k	70k	225k	72	181.7k	6.7k
2 Aug		08:30	≈			18.2 12.0	Unemployment Rate	Jul	4.1%	⚡↑ 4.3%	0.20%	4.1%		4.0%	4.2%	71	4.10%	0.00%
2 Aug		08:30	≈			18.2 12.0	Average Earnings YY	Jul	3.7%	3.6%	-0.10%	3.9%	3.8%	3.6%	3.9%	33	3.71%	0.01%
2 Aug		10:00	≈			18.2 12.0	Factory Orders MM	Jun	-2.9%	-3.3%	-0.40%	-0.5%		-5.5%	1.0%	33	-2.67%	0.23%
4 Aug		20:30				18.2 12.0	JibunBK Comp Op Final ...	Jul	Real-Time			52.6						
4 Aug	🕒	20:30	≈			18.2 12.0	JibunBK SVC PMI Final SA	Jul				53.9						
5 Aug		03:45				18.2 12.0	HCOB Composite PMI	Jul				51.3						

15m +
economic time series

- ✓ Real-time Indicators
- ✓ Economic forecasting
- ✓ Economics point-in-time
- ✓ Emerging markets
- ✓ Consumer and business sentiment
- ✓ National and international
- ✓ Comparable economics



Source: LSEG Datastream, LSEG Workspace

Optimizing Macroeconomic Data for AI

Considerations

- Useful in **macro forecasting models** or **signal enrichment** for trading.
- **Low-frequency, lagged, often revised** data.
- Requires **feature engineering** to handle sparsity and noise (rolling averages, lagged features, statistical methods)

Risks

- Models trained on **final data** are cheating: “corrected past,” vs. investor view.
- Causal misinterpretation, overestimate prediction accuracy.

Guidance

- Use **point in time (PIT)** data, real-time data, or confidence intervals.
- Consider **real-time vs. final** signal separation.

Example Datasets

CPI, GDP, unemployment, central bank announcements, macro indicators.

#Instead of:

CPI = 2.5%

#Use:

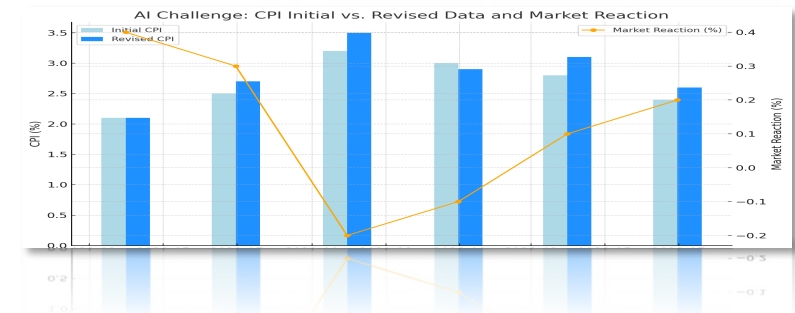
CPI = 2.5% ± 0.4%

CPI = 2.5% ± 0.4%



LSEG Macro Economic Data & Analytics

LSEG Global Macro Forecasts





Optimising Pricing Data for AI

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Pricing Data

Valuing securities

Timeframe

- ✓ Real-Time (streaming, delayed)
- ✓ Historical

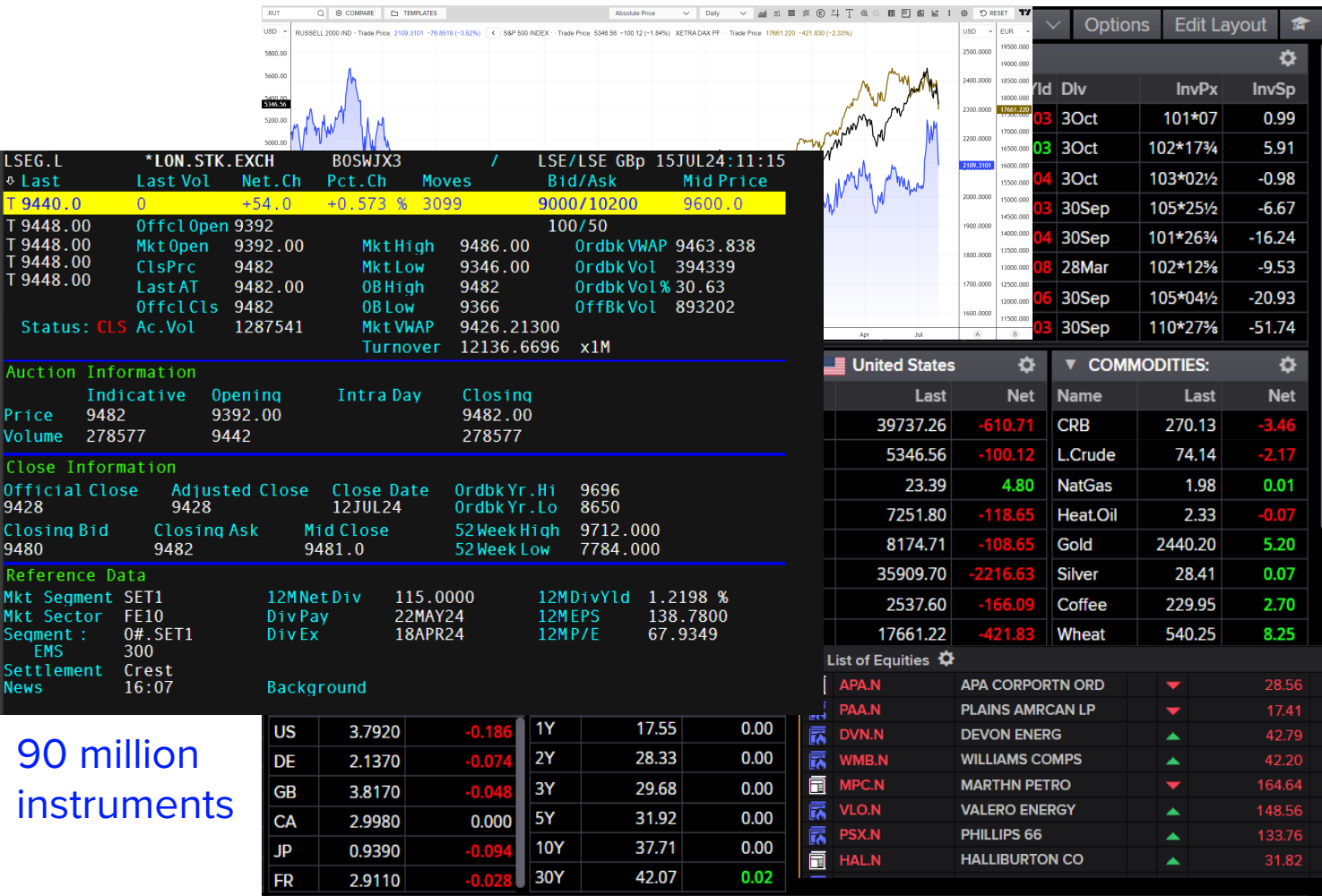
Source

- ✓ Exchange-traded instruments (ETI)
- ✓ Over the counter (OTC)

Type

- ✓ Contributed pricing
- ✓ Composite pricing
- ✓ Evaluated pricing

“Pricing” can refer to **absolute price**, or to **spread, yield or volatility** per trading convention



90 million
instruments

Source: LSEG Workspace

Optimizing Pricing Data for AI

Considerations

- Supports **high-frequency, real-time models, valuations.**
- Requires **trade qualifier filtering**, outlier detection, tick aggregation (e.g., VWAP).

Risks:

- Noise amplification, anomalies
- Look-ahead bias
- Overfitting to historical prices.

Guidance:

- Remove or flag price spikes / drops
- Create price buckets (bars)
- Manage securities lists: delisting, expiration, maturity, default, corporation actions, ticker changes

Examples: Real-time quotes, bid/ask, volumes, tick-level trades, end-of-day prices.



London Stock Exchange Group PLC						Time and Sales		
Timestamp	Bid	Bid Size	Ask	Ask Size	Last Trade	Volume	VWAP	
06-Aug-2025 16:08:54.297	10,005	872	10,010	1,031	▲	10,010	6	9,962
06-Aug-2025 16:08:53.759	10,005	872	10,010	647	▲	10,010	11	9,962
06-Aug-2025 16:08:05.585	10,005	735	10,010	1,175	▼	10,005	112	9,962
06-Aug-2025 16:08:02.842	10,005	639	10,010	1,406	▼	10,005	138	9,962
06-Aug-2025 16:08:02.839	10,005	754	10,010	1,406	▼	10,005	115	9,962
06-Aug-2025 16:08:02.144	10,005	384	10,010	1,241	▼	10,005	90	9,962

[LSEG Real-Time](#)

[LSEG Pricing Service](#)



Optimising Reference Data for AI

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Reference Data

Security master

- ✓ Security details
- ✓ Entity details
- ✓ Descriptive information
- ✓ Identifiers
- ✓ Fixed Income Terms and conditions:
 - ✓ Issuer Info
 - ✓ Maturity Date
 - ✓ Amount Issued
 - ✓ Amount Outstanding
 - ✓ Coupon
 - ✓ Schedules
 - ✓ Ratings
 - ✓ Prospectus...

LSEG 1.625 16-APR-2020 '30 MTN				LONDON STOCK EXCHANGE GROUP PLC	GB / GBP	Updated: 03-Aug-2024 15:17 ISIN XS2327297672 Issue Rating: A3 (MDY 18-Jul-2024)
B/A:	86.626/87.012 (+0.039)	BYId/AYId:	4.290/4.207 (-0.007)	OAS:	47.57	02-Aug-2024 12:14 REFINITIV
All Quotes	News	Description	REPS Valuation	Schedules	Charts	Price History
Documents & Notes	Issuer	Calculators	Related Instruments	Holdings	Index Membership	Research
BOND INFORMATION					Summary View	
PRINCIPAL / COUPON INFORMATION			ISSUANCE DETAILS		OBLIGOR (ISSUER)	
Maturity Date / Next Call Date	06-Apr-2030 @ 100% / 07-Jan-2...		Issue Date / Price / Yield	06-Apr-2021 / 98.987% / 1.748		Name
Principal / Coupon Currency	GBP / GBP		Issue Spread	95 (UKT 0.375% Due October 2...		LONDON STOCK EXCHANGE GROUP PLC
Coupon Type	Fixed:Plain Vanilla Fixed Coupon		Announcement Date	26-Mar-2021		Domicile
Coupon Frequency					United Kingdom (GB)	
Current Coupon / Next Pay D					United Kingdom (GB)	
Dated / First / Final Coupon					P6I445N30	
Amount Outstanding					Financials	
Par Value / Min. Denominat					ent Services	
Floating Rate Note					Investme...	
► Show More					y Market ...	
MARKET CONVENTIONS					y Market ...	
Day Count Basis					None	
Settlement					None	
► Show More					B+ (LSEG.L)	
BOND TYPE						
Instrument/Structure Type					2024 (A)	
MTN					2024 (A)	
► Show More					Value	
COVENANTS					XS2327297672	

80 million securities

Source: LSEG Workspace

Optimising Reference Data for AI

Considerations

- Often used across platforms (**trading, risk, compliance**).
- Some fields are static (e.g., ISIN, issue date), others change (e.g., credit rating, status).
- Ensure consistent identifiers and definitions across systems to avoid mismatches.

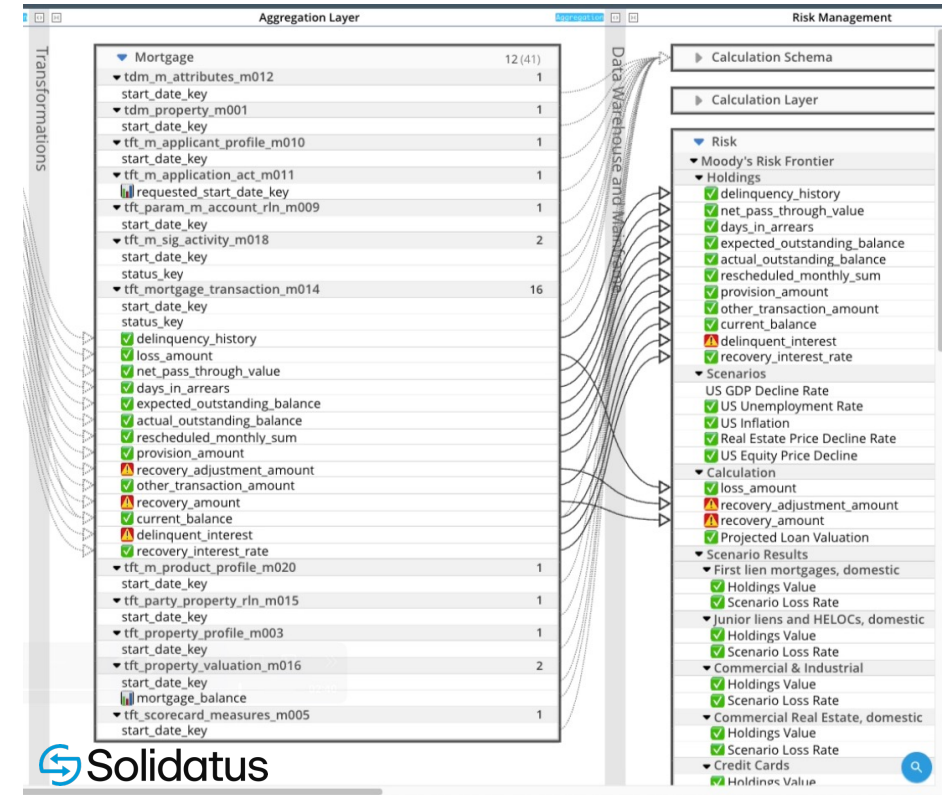
Risks

- Some instruments may lack key fields like maturity date or coupon frequency.
- Variations in issuer names or instrument descriptions can confuse entity resolution.
- Without change-tracking models may learn from outdated data.

Guidance

- Create master mapping table and use “golden source”.
- For missing data use peer/industry group data as proxy.
- Track data lineage.

Data Lineage



LSEG Reference Data

Examples: Bond Coupons, Maturity Date, Credit Rating, Dividend Yield, Parent Company, Identifiers



Optimising **Symbology** for AI

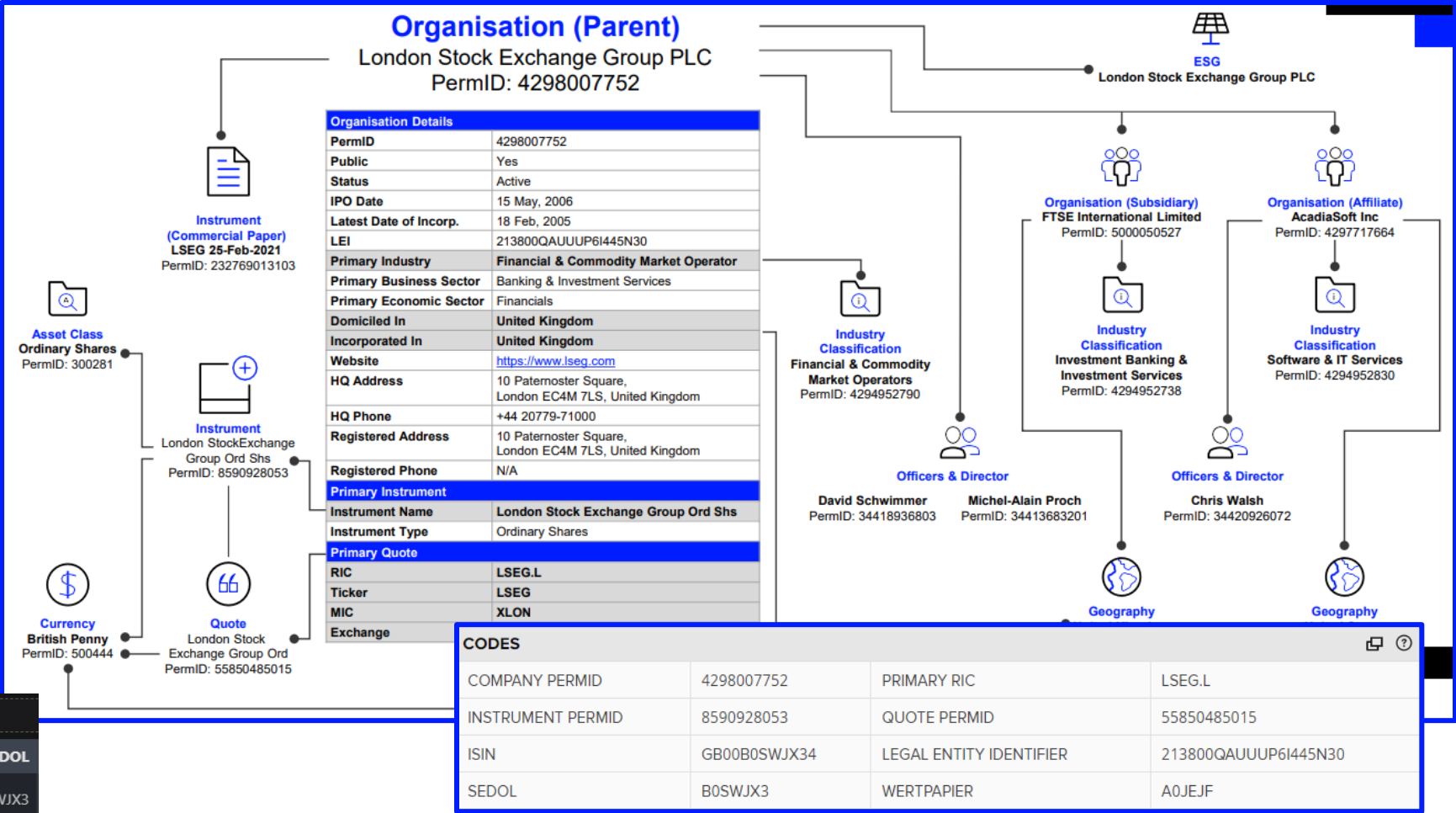
LSEG

Symbology

Data mapping and stitching

- Combining datasets using common identifiers.
- 100+ different market identifiers which can change: SEDOL, ISIN, CUSIP, RIC...

PermID: open, permanent, machine-readable identifier spanning organizations, instruments, funds, issuers, and people



```
rdp.convert_symbols('LSEG.L')
```

IssuerOPermID	TickerSymbol	RIC	SEDOL
LSEG.L	4298007752	Londor LSEG LSEG.L B0SWJX3	

Symbology Conversion via API

Source: LSEG Workspace, permid.org

Optimising Symbology for AI

Considerations

- Symbology is essential for all securities workflows.
- Necessary for linking across datasets (i.e., pricing, reference, analytics).
- AI needs a unified mapping

Risks

- Bonds often have ISIN, CUSIP, internal IDs
- Corporate actions can break historical continuity.
- Same ticker across markets or asset classes confuses models.

Guidance

- Implement master symbology layer
- Contextualize instruments beyond IDs
- Leverage Open Standards (i.e. [PermID](#))

[LSEG Reference Data](#)

API Query

```
{
  "from": [
    {
      "identifierTypes": [
        "LEI"
      ],
      "values": [
        "213800QAUUUP6I445N30"
      ]
    }
  ],
  "to": [
    {
      "objectTypes": [
        "organization"
      ],
      "identifierTypes": [
        "PermID"
      ]
    }
  ],
  "reference": [
    "name",
    "status",
    "classification"
  ],
  "type": "auto"
}
```

API Response

```
{
  "data": [
    {
      "input": [
        {
          "value": "213800QAUUUP6I445N30",
          "identifierType": "LEI"
        }
      ],
      "output": [
        {
          "value": "4298007752",
          "identifierType": "PermID",
          "objectType": "organization",
          "name": "London Stock Exchange Group PLC",
          "status": "Active",
          "classification": "Financials"
        }
      ]
    }
  ],
  "requestId": "fbfced2b-4f63-4f15-8330-cfc243db7493",
  "effectiveAt": "2022-04-22T13:38:35.375Z",
  "messages": []
}
```

[LSEG Symbology](#)



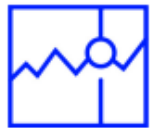
Optimising Unstructured Text for AI

LSEG

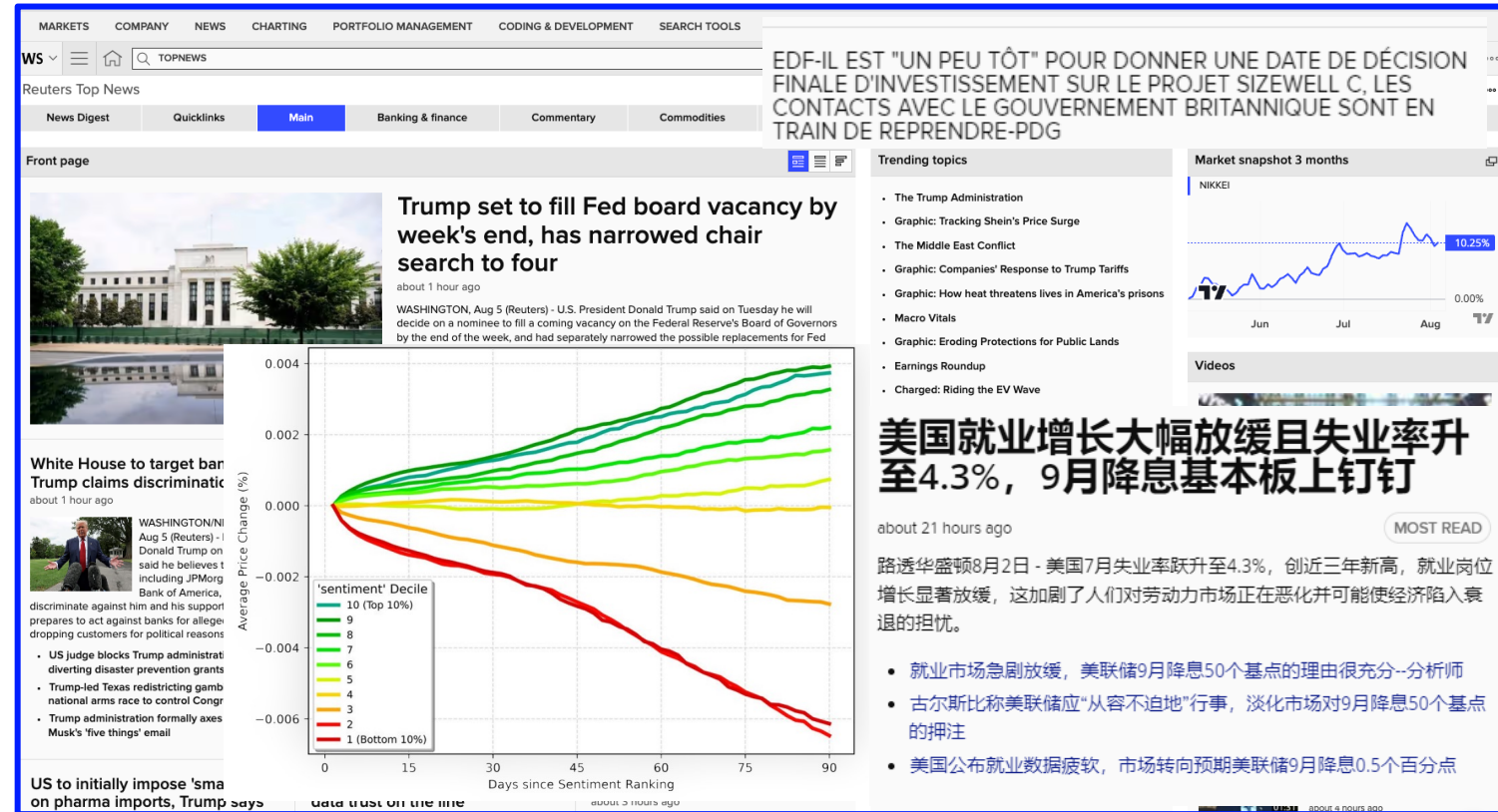
Unstructured Text

News, Research, Filings, Transcripts

- ✓ Financial markets
- ✓ Capital markets
- ✓ Commodities
- ✓ Companies and industries
- ✓ Sentiment
- ✓ Breaking news
- ✓ Research reports
- ✓ Transcripts
- ✓ Filings



Machine ready data



Source: LSEG Workspace, MarketPsych, Machine Readable News

2-3 million news articles published daily

Meta data + tagging

Optimising News & Research for AI

Considerations:

- LLMs used for **summary, classification, and sentiment**.
 - [Reuters Super Summaries](#)
 - [LSEG MarketPsych NLP Engine](#)
- NLP must handle **jargon, sarcasm, and entity disambiguation**.
- Requires **temporal alignment** with market data for causality.
 - Accuracy can improve by **combining datasets** (i.e., [Tick History](#))

Risks:

- Misinformation, misinterpretation, misunderstanding.
- Time lag between events and market reaction.

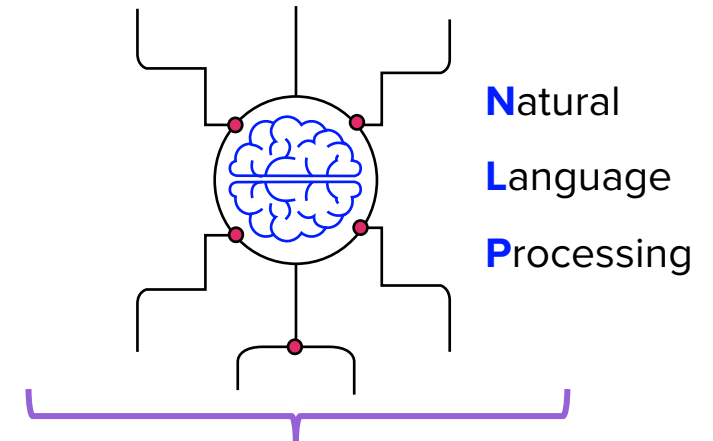
Guidance:

- Prioritize **reputable sources**, tag each article with **credibility score**.
- Calibrate for sensational or ambiguous headlines.
- Tag entities to structure (dates, events, people, company names...)
- Use **sentiment tagging** to capture tone.

Examples: Financial news and commentary, earnings coverage, social media.

Unstructured Data

	Time	Source	RICs	Headline	Sentim...
	05 August 2025				
	23:55:47	RTRS	INDG3355G-CC	Foreign banks load up on India bonds in run up to RBI policy BUZZ	🟢
▲	23:47:23	RTRS	INSEI_BSE5N	INDIA STOCKS-Indian shares open flat ahead of RBI policy decision	🟡
	23:36:55	RTRS	FAMOND MSN INVLMI	Reserve Bank of India: Money Market Operations as on August 05, 2025	🟡
▲	23:17:09	RTRS	SOGALPA	Tata Motors deal treats debt as a four-letter word BREAKINGVIEW	🟢
▲	23:13:50	RTRS	SOGALPA	SOCIETE GENERALE SA SOGN.PA: JP MORGAN RAISES TARGET PRICE TO EUR 65 FROM EUR 57	🟢
▲	22:59:20	RTRS	USDC INBFWID INB-IN	INDIA RUPEE-US tariff threat to keep rupee on the ropes ahead of RBI rate call	🔴



Structured Data

assetCode	date	version	Equity	Business	Management	Rank
4295533401	2020-01-01	1.0.0	48	20	84	60
4295856130	2020-01-01	1.0.0	28	3	29	5
4295856134	2020-01-01	1.0.0	80	84	80	94
4295857066	2020-01-01	1.0.0	44	82	83	85
4295859577	2020-01-01	1.0.0	33	70	32	37
4295859597	2020-01-01	1.0.0	74	93	73	95

Analytics

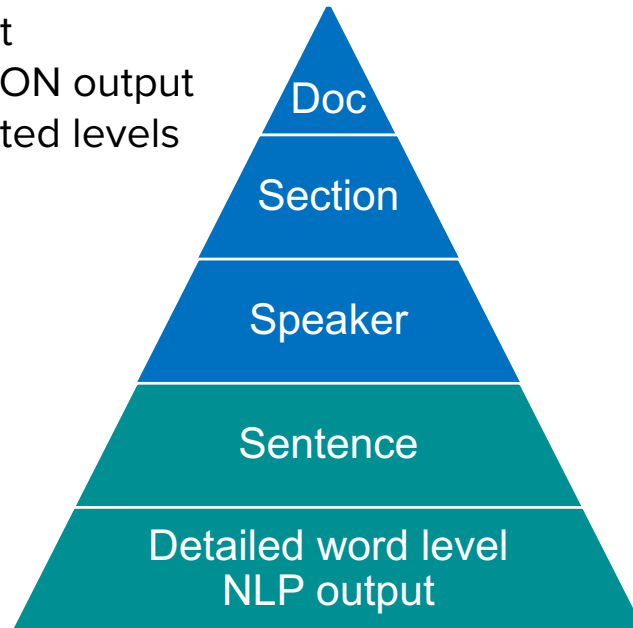
Prediction

[LSEG News Data](#)

Optimising Transcripts for AI

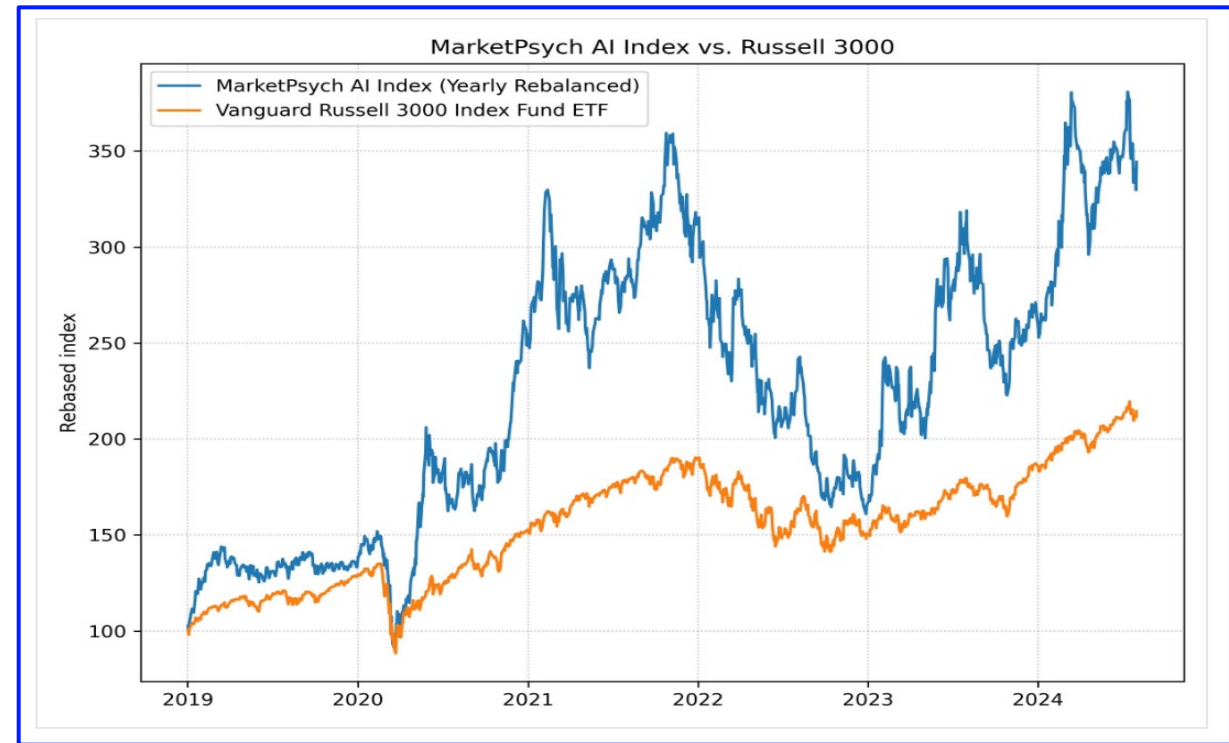
MarketPsych Transcript Analytics

- Original text
- Detailed JSON output
- All aggregated levels
- UI and API



 **MARKETPSYCH**

Examples: Transcripts from company earnings calls



[Exploring AI Mentions in Earnings Calls and Building Thematic Portfolios](#)



Optimising **Company Data** for AI

LSEG

Company Data

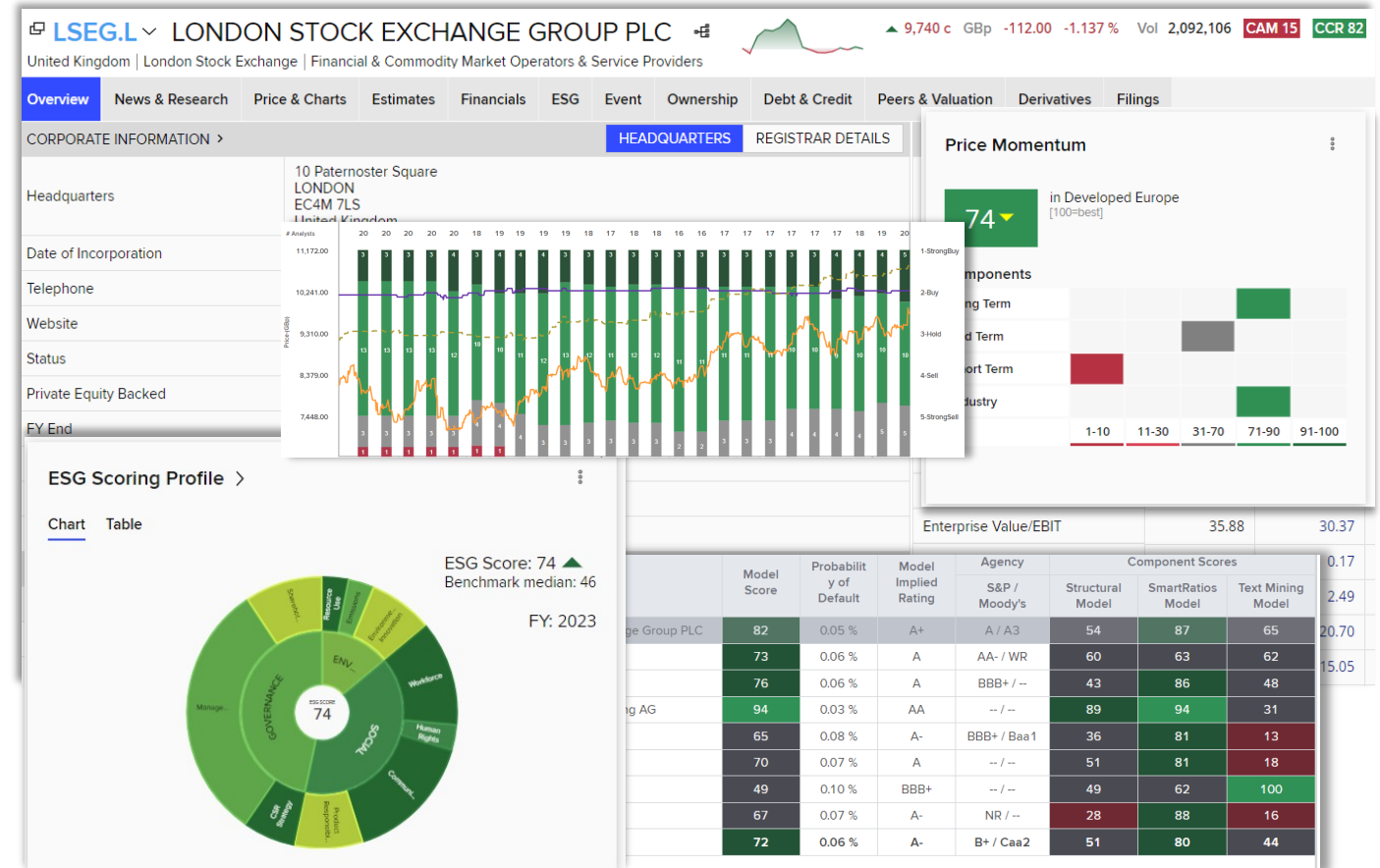
Understanding and valuing companies

- **Unstructured**

- ✓ News & Research
- ✓ Filings
- ✓ Transcripts

- **Structured**

- ✓ Pricing
- ✓ Reference Data
- Company events
- Corporate actions
- Deals data and league tables
- ESG
- Fundamentals
- Estimates
- Organisation entity data
- Ownership, insider, institutional profiles
- People (D&O)
- Private company profiles and financials
- Private equity and venture capital data
- M&A



48k+ publicly traded companies

200k+ private companies

Source: LSEG Workspace

Optimising Company Data for AI

Considerations

- Both structured (revenue..) and unstructured data (footnotes.).
- Companies report on different fiscal calendars.
- Data may come from filings (10-K, 10-Q), vendor feeds, or company websites.

Risks

- Data gaps and missing values.
(especially for smaller or private companies).
- Inconsistent definitions, delayed reporting.
(models may miss current trends).

Guidance:

- Use **standardized datasets with auditability**.
- Harness peer and industry metrics to address gaps
- Use consistent sources, track revisions and history.

Examples: Revenue, EBITA, ESG Scores, Debt, Earnings Estimates, Industry Specific KPIs

LSEG.L LONDON STOCK EXCHANGE GROUP PLC 10,100 c GBP +296.00 3.0

United Kingdom | London Stock Exchange | Financial & Commodity Market Operators & Service Providers

Overview News & Research Price & Charts Estimates **Financials** ESG Corporate Governance & Officers Event Ownership Debt & Credit

INCOME STATEMENT Basis: Consolidated Period: Quarter View: Standardized

FCC Search by field

Statement Data

Period End Date: JUN-2024

Statement Date: 29-Jun-2024

Standardized Currency: GBP

Template Type: Other Financial - ...

Revenues

Item	2024	2023	2022
SNCF Net Commission & Fees Income/(Expense) - Business R...	2,024	2,046	1,961
SCFI Fees & Commissions Income	2,318	2,354	2,263
SCFE Fees & Commissions Expense	294	308	302
STLR Revenue from Business Activities - Total	2,024	2,046	1,961

Operating Expenses

SCOR Cost of Operating Revenue

Share/Per Share - Dividends

SDPSGI DPS - Common - Gross - Issue - By Announcement Date...

SDPSNI DPS - Common - Net - Issue - By Announcement Date, ...

Other

SCREV Cost of Revenue including Operation & Maintenance (U...

LSEG Company Data



Optimising **Risk Intelligence Data** for AI

LSEG

Risk Intelligence Data

Tracking global risk and regulation

- ✓ Sanctions
- ✓ Law and regulatory enforcement
- ✓ Politically exposed persons (PEPs)
- ✓ State-owned enterprises
- ✓ Adverse media
- ✓ Ultimate Beneficial Owner
- ✓ Account Verification
- ✓ Identity Verification
- ✓ Regulatory Data
- ✓ KYC (know your customer)
- ✓ Fraud detection

480+ regulatory lists
2.4m+ PEPs

*Other datasets also support
regulatory compliance

Single

Batch

Entity Type

Individual

Organisation

Vessel

Unspecified

Check Types

World-Check

Passport Check

Media Check

WatchList

Vessel Check

UBO Check

Vessel Check

Case ID

Gender

Date of Birth

Country Location

Place of Birth

Nationality

LINK TO PRIMARY CASE

Choose Primary Case

SCREENING SETTINGS

Enable Ongoing Screening

Screen

Save

LSEG Due Diligence

SNAPSHOT | COMPANY

COUNTRY RISK RANKING

Risks associated with the Country in which the subject is located and not directly associated with the subject.

	RANK	RISK BAND
OVERALL COUNTRY RISK RANKING FOR UNITED STATES OF AMERICA	8.2	LOW
	(From 1-10)	(From High - Very Low)

Country Integrity Risks

	Risk	Risk Band
Government Connections	9.1	Very Low
Corruption and Bribery	8.6	Low
Fraud	7.3	Low
Serious and Organised Crime	1.5	High
Money Laundering	5.8	Medium
Terror and Related Matters	4.0	Medium
Tax Non-Compliance	2.7	High
Anti-Competitive Behaviour	9.7	Very Low
Sanctions and Restrictions	4.9	Medium

Country Environment, Social and Governance Risks (ESG)

	Risk	Risk Band
Human Rights	3.2	High
Environmental Degradation	8.7	Low
Modern Slavery	5.7	Medium
Animal Welfare	6.0	Medium
Employment Practices	6.0	Medium
Sales and Marketing Practices	4.0	Medium
Governance and Management	8.7	Low
Health and Safety	8.0	Low
Regulatory Enforcement	7.4	Low

Country Identity Risks

	Risk	Risk Band
Transparency	7.4	Low
Source of Wealth	4.1	Medium

Country Financial Risks

	Risk	Risk Band
Financial Stability	7.4	Low
Financial Irregularities	6.1	Medium

Source: LSEG World-Check, LSEG Due Diligence

Optimising Risk Intelligence Data for AI

Considerations

- Use cases include document verification, fraud detection, and/or spotting political/legal risk.
- Variations in how names, addresses, or IDs are recorded can confuse models.
- Data is often governed by strict rules (e.g., GDPR).
- AI decisions must provide **transparency and accountability**.
- Risk data often includes confidential financials, exposure metrics, and internal assessments.

Risks

- Improper handling of PII.
- Regulatory definitions and thresholds may change.
- AI may learn and perpetuate unfair practices (AI Ethics Concerns)

Guidance

- Consistent formatting for names, addresses, dates
- De-duplicate and resolve entities,
- Store flag to indicate opted in to AI-based risk assessments.



[LSEG Risk Intelligence](#)

Examples: PII such as names, addresses, ID numbers, and financial history, sanctions lists, regulatory directives and jurisdictional laws.



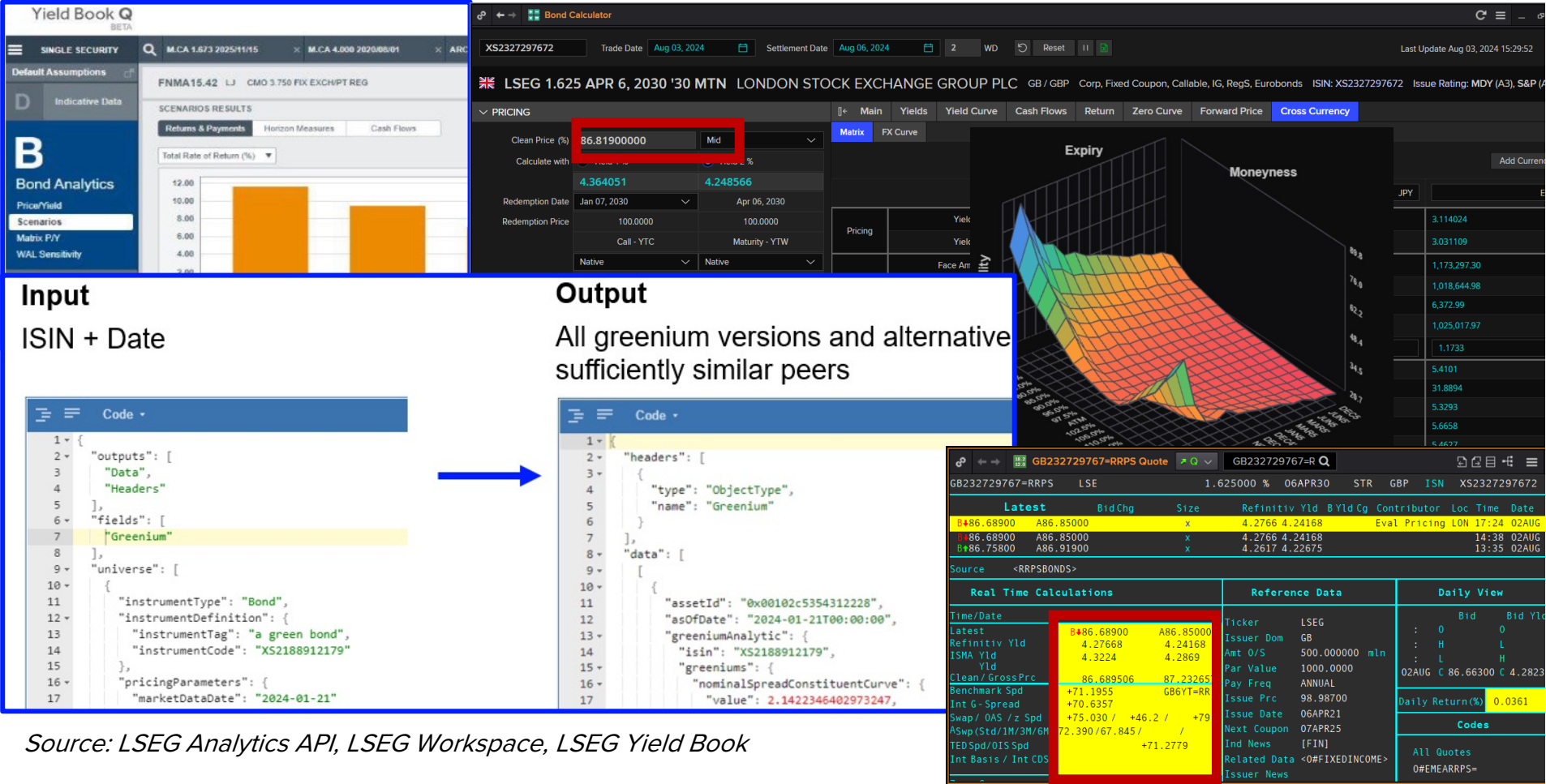
Optimising **Analytics** for AI

LSEG

Analytics

Calculation engines

- ✓ Valuations
- ✓ Hedging
- ✓ Spreads
- ✓ Yields
- ✓ Volatilities
- ✓ Risk metrics
- ✓ Greenium
- ✓ Modelling
- ✓ Statistics
- ✓ Term Structures



Analytics are derivative data and are limitless

Optimising **Analytics** for AI

Considerations

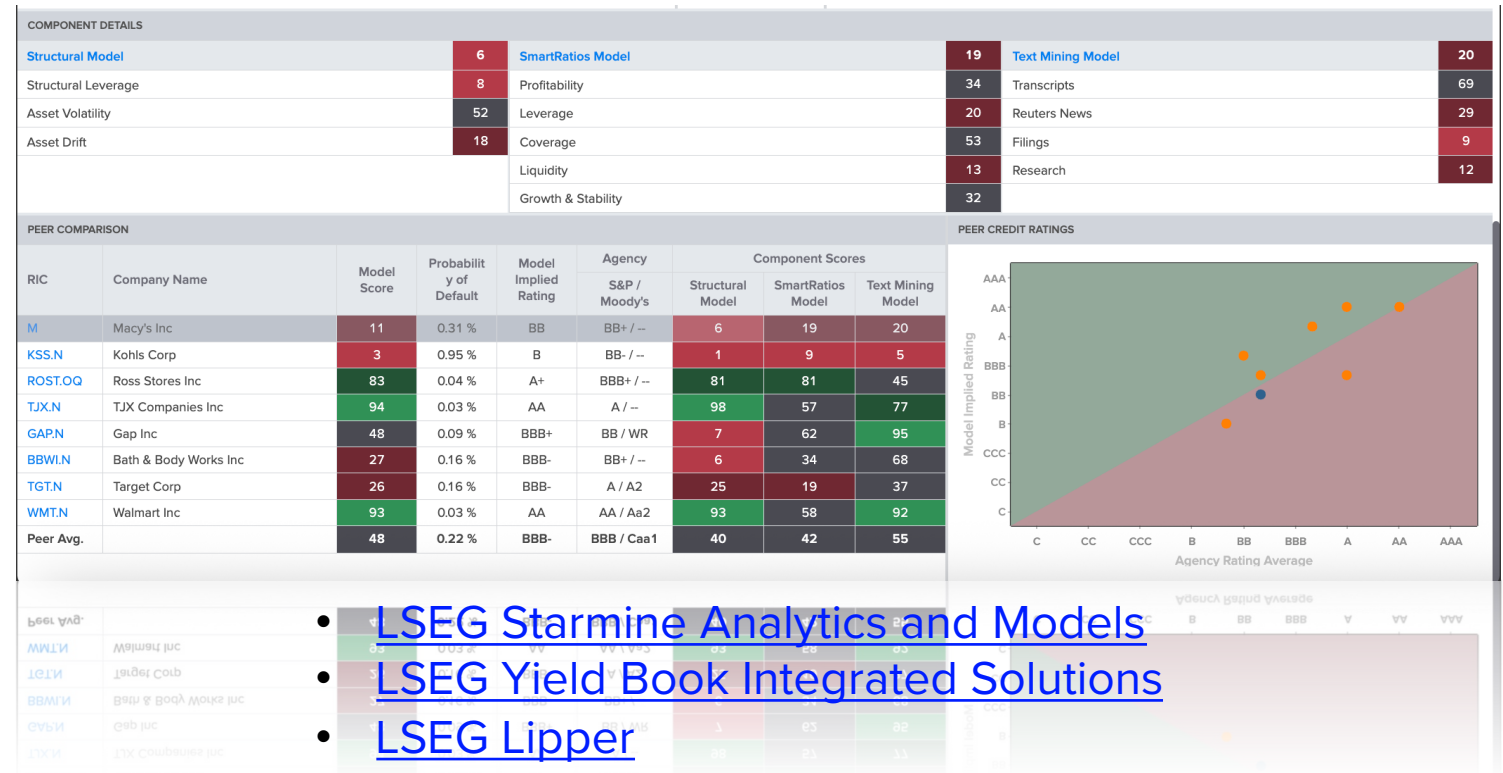
- Pervasive throughout the financial ecosystem.
- Use cases across valuations, risk, trading.
- Only as good as the input data behind them.

Risks

- Potential for black box – challenge to explain to clients and regulators.
- Regulatory compliance
- Model drift

Guidance

- Implement explainability layers
- Understand inputs ([white papers](#))
- Consider hybrid models
- Strong data and model governance



- [LSEG Starmine Analytics and Models](#)
- [LSEG Yield Book Integrated Solutions](#)
- [LSEG Lipper](#)

Examples: Bond price/yield calculator, historical OAS spreads, equity options volatility calculations.



AI Data and Technology Requirements

LSEG

AI Data and Technology Requirements

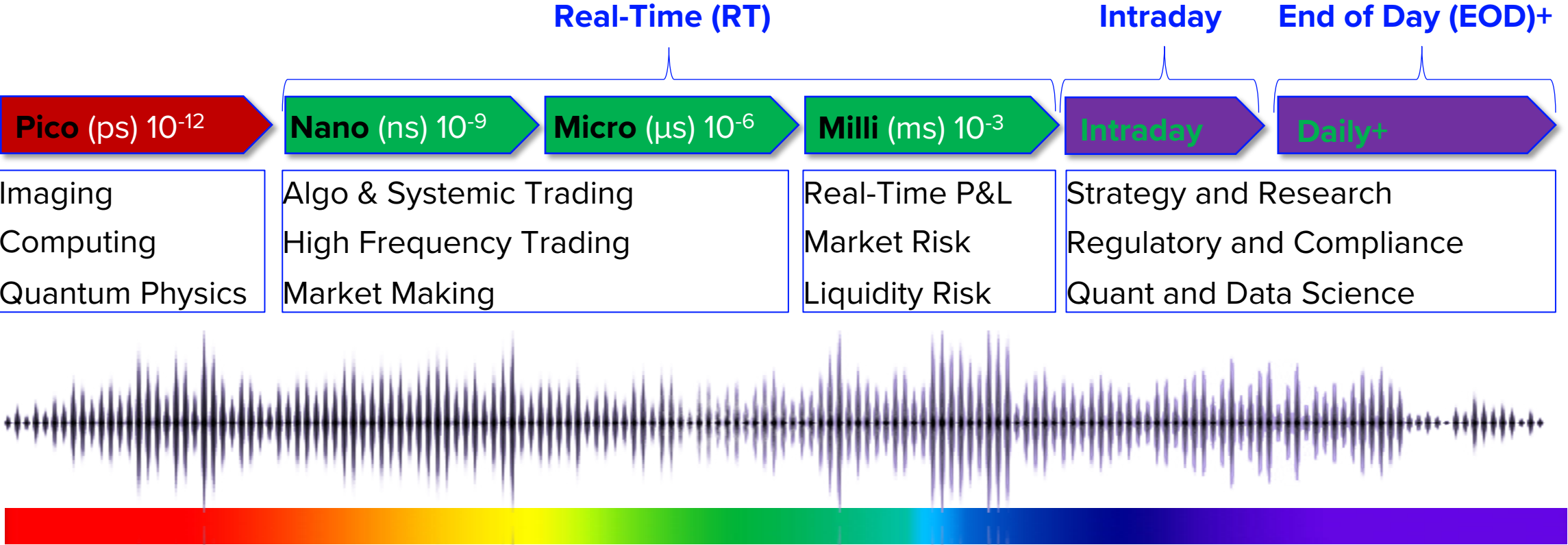
7 Key Questions

Latency	1. What frequency of data does your AI model require?
Volume	2. What are your AI data consumption volumes?
Transfer	3. Where does your AI model reside?
Delivery	4. What’s the best delivery for your AI?
Access	5. Who needs access to the AI data?
Licensing	6. Are there any AI restrictions on your data?
Maintenance	7. How are you managing AI data changes?



Data Latency

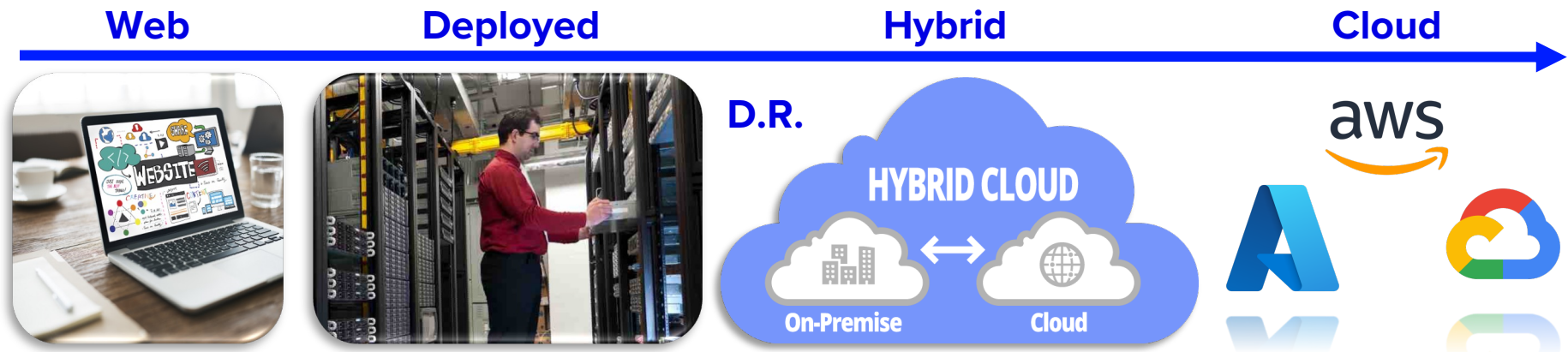
What frequency of data does your AI model require?



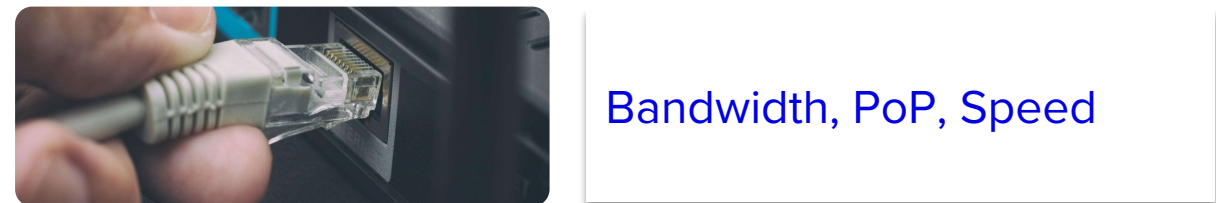
Data Transfer

Where does your AI model reside?

1. Infrastructure



2. Connectivity



3. Delivery Method



Data Delivery

What’s the best delivery for your AI?



Data Access

Who needs access to the AI data?

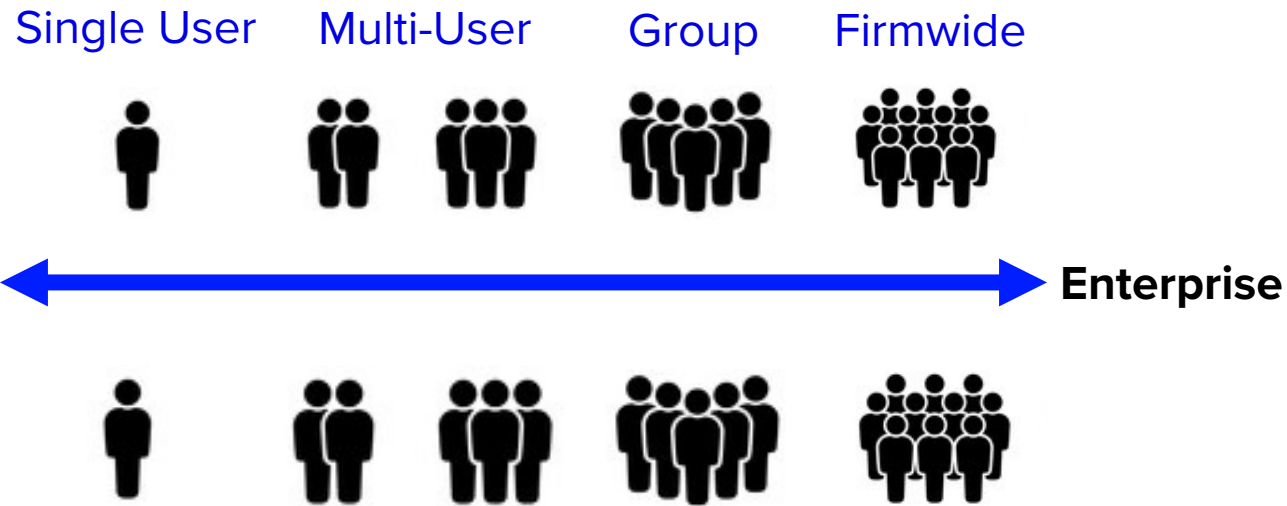
Internal =

Distribution

Desktop

External =

Redistribution



Technical, Workflow, and licensing considerations

* Data can as well be accessed through Partners solutions and applications



Licensing

Are there any AI restrictions on your data?

Raw Data

- As received: can only be used in the format as supplied by the Data Provider
- Normalized: data can be reformatted
- Modified: data can be changed, but not become 'Derived Data'

Derived Data

Data created in whole or in part from Raw Data, which cannot be readily reverse engineered to recreate the Raw Data.

Non-Display Usage (NDU)

Use of data for purposes other than display to users. In many cases Derived Data licences fall under NDU policies.

******Check contractual terms with your data provider for exact definitions and terms.******

Timeliness of Data

Real-time data in most cases has different duties – fees, obligations and restrictions – from delayed, End-Of Day (EOD) or historical data.

Artificial Intelligence (AI) Use

Covered under existing NDU Derived Data and/or application use rules, which may require additional licensing for AI use.

Some data providers prohibit use of their data in AI solutions.

“LSEG’s core data licensing principle is to license the “what” (use case) and not the “how” (technology).”

“LSEG generally does not restrict the use of LSEG data within AI technologies by clients.”

Source: [LSEG Data & Feeds and Workflows in Artificial Intelligence - Client Notification](#)

Maintenance

How are you managing AI data changes?

- Data is constantly changing:
 1. Market events
 2. Data provider changes
 3. Regulations
- Ongoing data and system updates are needed



Data Notifications (DNs):

DNs provide information on changes to third-party services that impact clients or may require them to take action. Clients and internal users can sign up to be alerted of changes on specific third-party Data Providers' products or data sets.

For more, visit [Data Notifications](#) | [MyAccount](#)

NOTIFICATIONS & ALERTS

Data Notifications

SHOWING 1 - 10 OF 290

Download Filters Search

STATUS	EFFECTIVE DATE	ID	TITLE	VERSION	CHANGE TYPE	CONTENT SERVICES
	07 Jun 2024	DN208485	New Zealand's Exchange (NZX) - Introduce M...	6	Field / FID change	N/A
	07 Jun 2024	DN210104	Singapore Exchange Securities Trading- Laun...	1	New RICs / Symbols	Singapore Exchange - ...
	09 Jun 2024	DN209609	Saudi Arabia Stock Exchange (Tadawul) - Cha...	4	Field / FID change	Saudi Arabia (Tadawul...
	10 Jun 2024	DN209962	Bolsas y Mercados Espanoles (BME) and BME...	1	Field / FID change	BME Spanish Exchang...

LSEG + Industry Changes

[Data Notifications | MyAccount \(lseg.com\)](#)

[Notifii API](#)



Recap - How to Optimise Financial Data for AI

LSEG

Key Points

1. Financial Data & Analytics AI Landscape

- Defining AI: Data Science vs. LLMs
 - Regulatory Drivers, Liquidity Challenges, and Financial Data
-

2. Financial AI – Hype vs. Reality

- 85% of AI projects in finance fail—due to **data and skills issues...**
 - **AI** is only as good as the data behind it
-

3. Optimising Financial Data for AI

- Specific guidance across Macroeconomic, Pricing & Reference,
 - Unstructured Text, Company, Risk Intelligence, and Analytics.
-

4. AI Data and Technology Requirements

- 7 key AI data and technology questions to answer.
 - AI licensing requirements and data maintenance.
-



LSEG Resources

24x7

Data Catalogue

lseg.com/en/data-analytics/financial-data

Data Discovery

datadiscovery.lseg.com

Academy

lseg.com/en/training/learning-centre

Customer Support

New support.lseg.com
myaccount.lseg.com

Developer Community

developers.lseg.com

Global Phone Numbers

myaccount.lseg.com/en/phoneus



Thank You

