Investment OS

From News to Impact - Enabling a Faster Response to Events

Agenda

News in Investment Research

Problem Identification and user Research

Outcome Mapping and Value Generation

Detailed Feature Breakdown

Feature Analysis: Pitfalls, Mitigation and Future Roadmap

News in Investment Research

About Investment OS

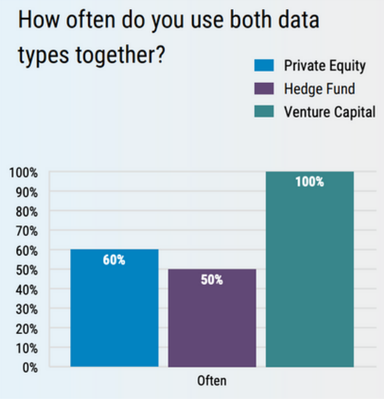
Investment OS builds AI research agents that help investors uncover **high-conviction insights** in minutes, not weeks. By automating analysis of filings, transcripts, and alternative data—and integrating seamlessly into **existing workflows**—it surfaces narrative shifts, management credibility, and competitive dynamics that traditional dashboards miss. Designed by investors for investors, it combines powerful automation with human judgment.

News and Alternate Data in Equity Research

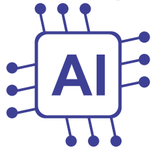
News forms a subset of '**Alternative Data**' which satellite images, social media posts, geolocation data, news feeds, and communications metadata

67% of investment firms now use alternative data in research workflows as compared to **31%** in 2022[1]

Recent studies confirm news sentiment and event detectors boost **short-term predictive power** across returns, M&A, volatility, and risk signals.[3]

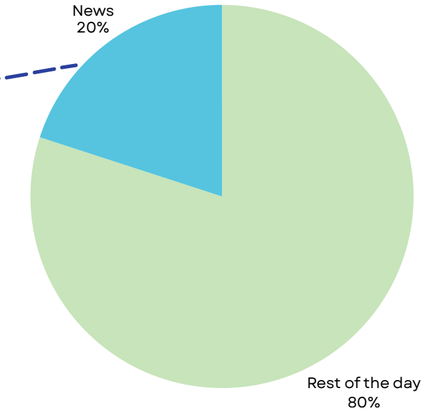


AI has **democratised** the use of alternate data, the use for which was earlier driven primarily by Hedge Funds



Analyst Effort Investment

- Analysts spend 50-60 hour work weeks of which **20%** of their time is allocated to monitoring and synthesising news events
- Depending upon the news event, it can take on an avg **30mins** to prepare a quick flash card to **2hrs** for a comprehensive report for the news impact analysis



Why Should We Solve Now?

94% of alternative data users said they use it in combination with fundamental analysis to make investment decisions[1]

4/5 alternative investment managers plan to increase their budget for alternative data[2]

- News synthesis and analysis can provide goldmine of sentiment analysis, which has strong predictive value
- Current tools provide insights and summaries, but not **impact and trend analysis**

1 Lowenstein 2 Deloitte 2 MDPI

Problem Identification and User Research

Rohan Mishra, 28
Buy Side EUR Equities

Stock price drops > 5%

RCA & Correlation
Correlating the price movement with news & events

Trend Analysis
Studies **historical trend** of such news and events, and their **impact** on stock price

Impact Magnitude
Assess whether this is **short-term** or **long-term** in nature

Report Preparation
Prepares report to show to higher managment for **thesis tracking**

Pain Points from User Interviews

1. Juggling with **multiple tools** during this entire process - **Alerts** (Google alerts/Scout Quest), **Sources** (news source), **AI tools** for summarising and preparing reports
2. **Manual groundwork** for identifying the base level impact, **deeper research** on multiple **inter-connected aspects** (industry, peer companies, key metrics, etc.)
3. **Collating data** to analyse **historical trends** and correlation during similar events
4. Translating all the analysis into **downstream workflow** - modelling, thesis, etc.

Key Takeaways

↑ Number of tools used	=	↑ Friction in workflow
↑ Time spent in data collection and manual work.	=	↑ Less time for actual judgement work
↑ Time spent per company	=	↓ Number of companies covered
↑ News & events with inc in companies	=	↑ Time to action per event

Shrehan Shah, 26
Buy Side US Equities

Relevant news comes up

Analysis & Synthesis
Analyse news events and identifying its **impact** on the company

Report Preparation
Prepare the impact **report** on company level and how it affects industry specific KPIs

Downstream Workflow
Quantifying the impact and flowing it to the **financial model**

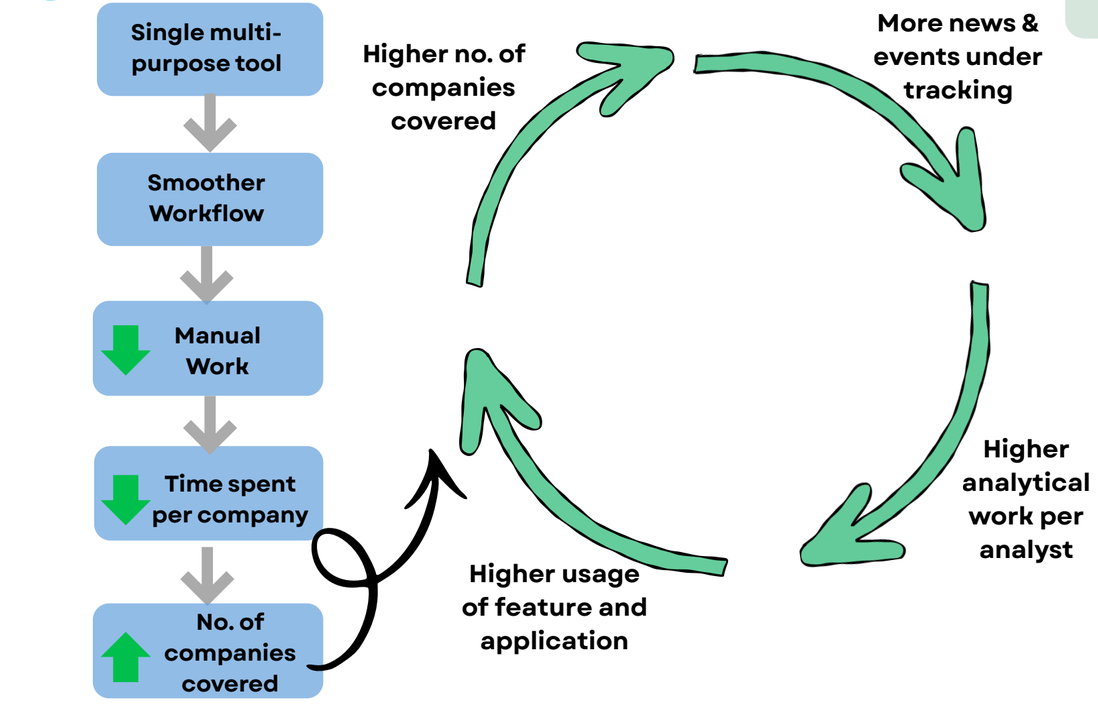
Outcome Mapping and Value Generation

Desired product outcomes which can impact business outcomes

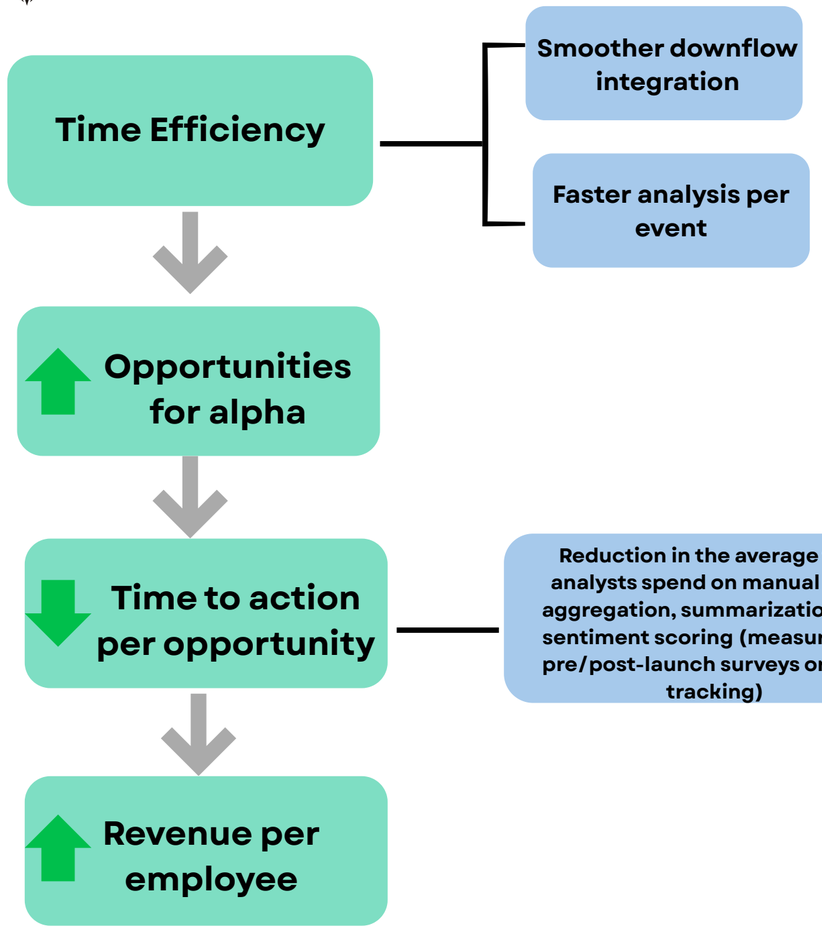
News related to industry/company/macro is more frequent than filings release

DAU → Retention → Analyst Time Saved → Stickiness → CLV

Product Led Growth and Positive Loop



Value generation for customer

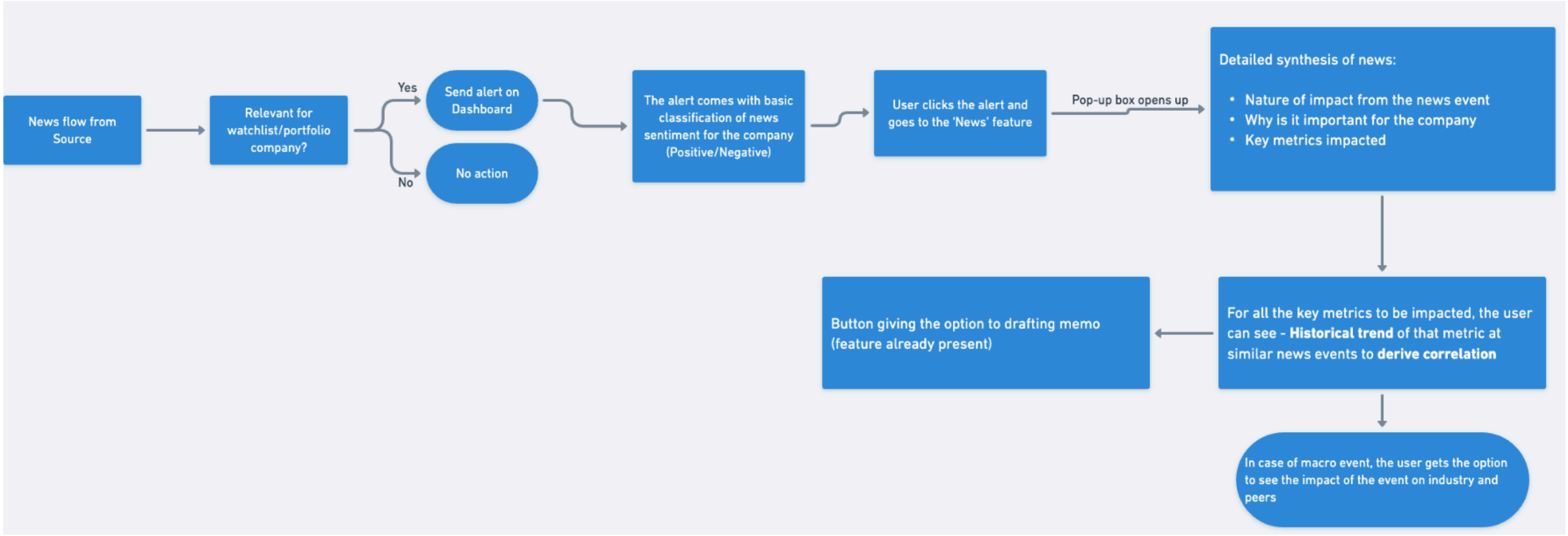


Incremental Revenue

Increase in tool usage x Higher time saved per analyst = More seats per customer

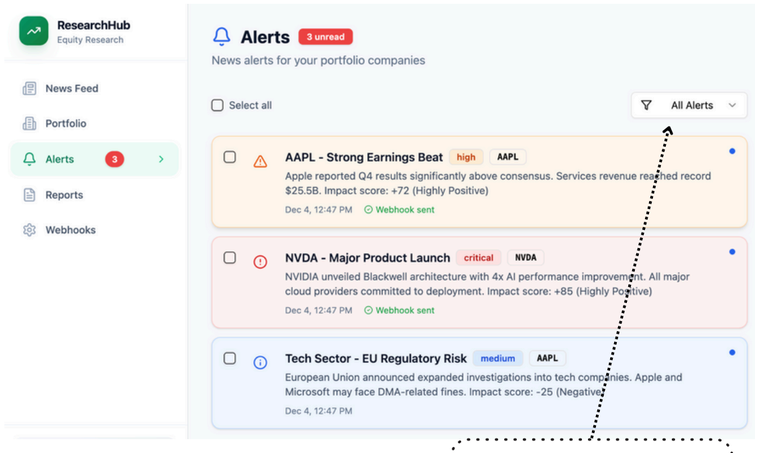
Detailed Feature: Removing Noise and Enabling Insights From Unstructured Data

User Flow



Detailed Feature: Removing Noise and Enabling Insights From Unstructured Data

Alerts Page



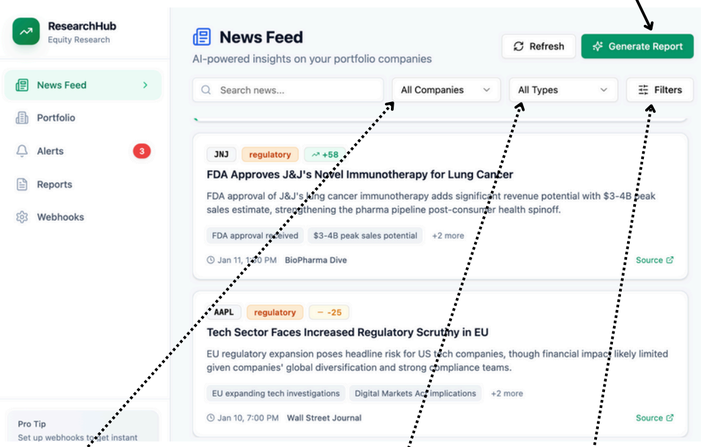
User can filter the news alters based on priority

Alerts Page will have basic details about the nature of the news, company name, impact score, sentiment, date and time

Here's a link to the prototype

News Feed Page

Buton to generate report

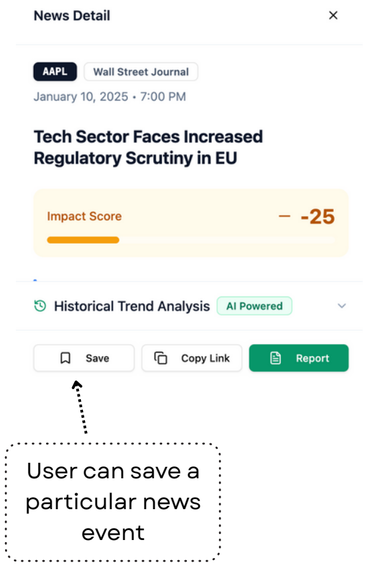


User can filter the news by company

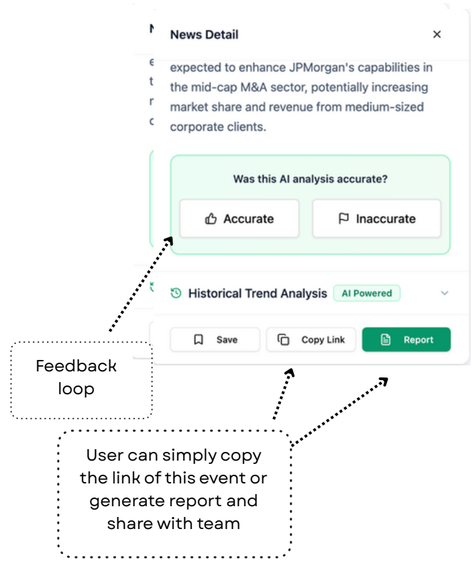
User can filter the news by type: comp specific, industry, regulatory, etc.

User can filter by impact score and status

News Feed page contains all news related to portfolio companies with citations having various filters to view the feed along with a button to generate report

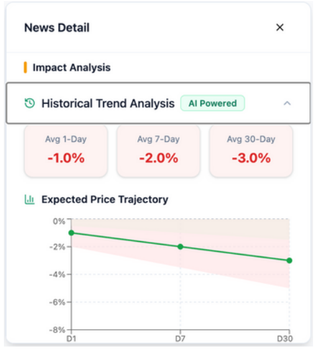


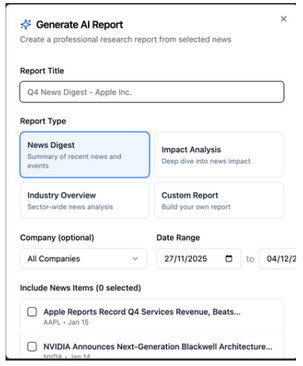
User can save a particular news event



Feedback loop

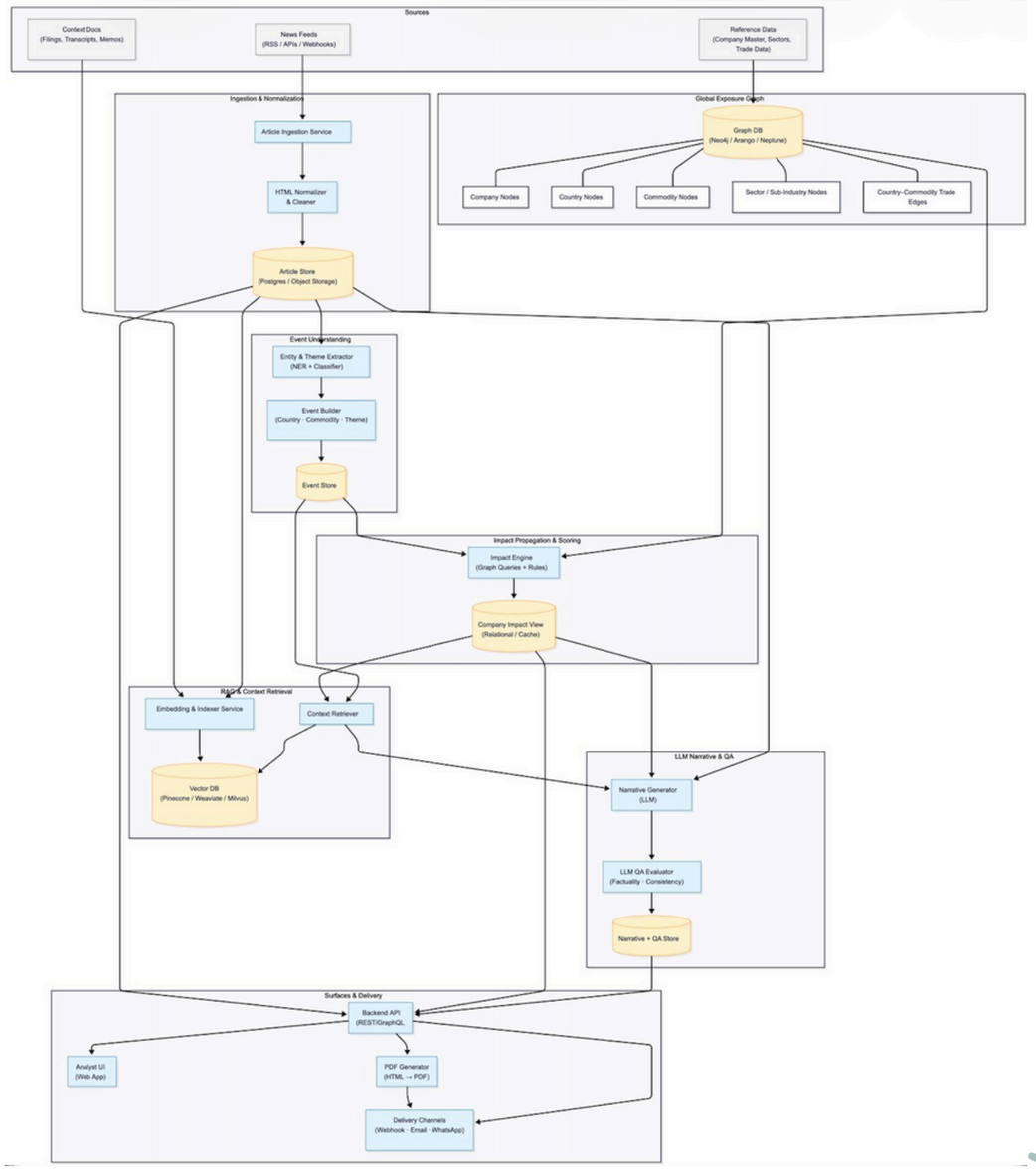
User can simply copy the link of this event or generate report and share with team





News Details page provides comprehensive impact analysis, summaries, historical trend analysis. It allows the user to share via copying the link or in the form of a report

System Diagram



Functional Requirements

- Receive alerts for news events
- Filter news by impact, relevance, type, etc.
- Source citations navigating to the original article
- AI generated summaries and insights
- Historical trends for stock price and event correlation
- Save the insight
- Share functionality via copying the link, or report sharing
- Report Generation

Non-Functional Requirements

- API response time under 500ms
- Minimise latency from news ingestion to impact and insight genreation
- Scalability to handle and process 1 million articles per day during high volatility
- The core ingestion, scoring, and API services must maintain a minimum uptime of 99%
- Client-specific data must be logically and physically separated from general training data and other client data.

Storage Component	Technology/Type	Primary Function
Article Store	Blob/Object Storage	Long-term storage of **raw and normalized article text**.
Global Exposure Graph	Graph DB	Stores **complex entity relationships** for impact modeling.
Event Store	NoSQL/Document DB	Stores **structured event records** (type, entities, time).
Company Impact View	Relational DB / Cache	Stores **latest scores, alerts, and historical price data** for fast API access.
Vector DB	Vector Database	Stores **article embeddings** for semantic search and RAG context retrieval.
Narrative + QA Store	Relational / Document DB	Stores **final, validated LLM narratives** and audit logs.

Detailed Feature Analysis : The North Star Metric for the proposed feature can be ‘No. of accurate reports generated’ from the feature

Pitfalls and Mitigation

Pitfall Category	Core Risk	Concise Mitigation Strategy	PRD Key Requirement
Model & Data Integrity	Inaccuracy & Hallucination	Source Transparency & XAI Confidence Scoring	**Must** link to original source and display an **AI Confidence Score** for every insight.
Model & Data Integrity	Algorithmic Bias	Domain-Specific Labelled Training	**Must** validate model fairness against market cap, sector, and geographic dimensions.
Model & Data Integrity	False Correlation (Historical)	Causality-Driven Feature Matching	Output must explicitly state the **Statistical Significance** and structural similarity of past events.
Compliance & Security	Data Leakage (Confidentiality)	Strict Multi-Tenancy Segregation	Portfolio data **must never** be used to train the general model. Enforce robust RBAC.
Compliance & Security	Regulatory Risk	Comprehensive Audit Logging	System **must** log all AI inputs, outputs, and the model **version ID** used for every single insight.

Metrics to measure success

No. of accurate reports generated (in the news feature of the app) can be chosen as a **North star metric**. This metric is measurable & actionable, and directly expresses the value that users derive from the solution (faster, accruateshareable impact analysis).

North Star Metric	**No. of accurate reports generated** (based on feedbackin news feature of the app)
Reach	**% of users that access News feature atleast once1 month post launch** **% of portfolio companies with at least one AI news insight generated in 2 days**
Activation	**% of users that perform at least one high-value action within 1 week of launch (share, copy link, report)** **Session duration post opening historical trend analysis to know whether it’s actually useful or not**
Engagement	**Average number of insights consumed per session** **% of high-impact alerts not flagged inaccurate by users**
Retention	**DAU/MAU - stickiness in the feature** **% of sessions where user navigates directly to news feature upon receiving alert**

Future Roadmap

Progress Towards Alternate Data

- Success in news feature can be a big validation for progressing towards more **alternate data integration**
- Alt data like Transaction & Consumer Data, Geospatial & Sensor Data, Digital & Social Data can provide high predictive value for **forecasting based modelling**

Thematic Investment

- It’s not uncommon to invest based on emerging themes & changing trends
- It’s a very laborous but rewarding activity to know what are the **latest themes**, which companies are taking **action in those themes**, what are different players talking about
- Factual news events and **theme based insight generation** would be invaluable