Bloomberg

Signals, Not Noise: Bloomberg News, Al and Feeds

Quant Webinar Series

Thursday 16 July 2020

Agenda

- 1. Introduction
- 2. News Built for Financial Markets
- 3. Automated News & Market Signals
- 4. Event Driven Feeds
- 5. Q&A

Speakers



Andrea Mandrelli EMEA Head of Quant and Systematic Data Sales Specialist Bloomberg L.P.



Daniel GuestEMEA News Product Specialist
Bloomberg L.P.



Ken Kohn
Core Product News, News
Automation
Bloomberg L.P.



Ali Mohsin
Head of Product, Event-Driven Feeds
Bloomberg L.P.

Bloomberg: News Built for Financial Markets

News Aggregation, Sentiment and Technology Daniel Guest, EMEA News Product Specialist

Bloomberg News

- Over 10k stories a day
- Journalist & Automated
- Economics, Government, Finance, Company News & Global Markets
- Strong track record in breaking news that matters to markets.
 - Examples of our track record on NI INFLUENTIA
 - Biggest scoops: NI BNSCOOP
- Capturing breaking news from Social Media a strength area.
 - NI VELOCITY



A News Aggregator

- Over 170k sources on Terminal
- Premium Global Sources:
 Bloomberg, Dow Jones, WSJ,
 NYT, Associated Press.
- Premium Local Sources:
 Telegraph, DPA, Corriere della
 Sera, Le Figaro, FaZ, AFR...
- Web content, company websites, press release and exchange wires, blogs.
- Social media posts (Twitter, Facebook, Weibo, Stocktwits)
- Content in 40 languages.



Tagging

- Content tagged to tickers, people and topic codes.
- Assigned coding by Journalists and machine-derived tagging rules in multiple languages.
- Relevancy scoring.

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10) Assigned	11) Derived	12) Anti	13) Story Tex	t 17)	Cluster	20) T	ranslati	ons		
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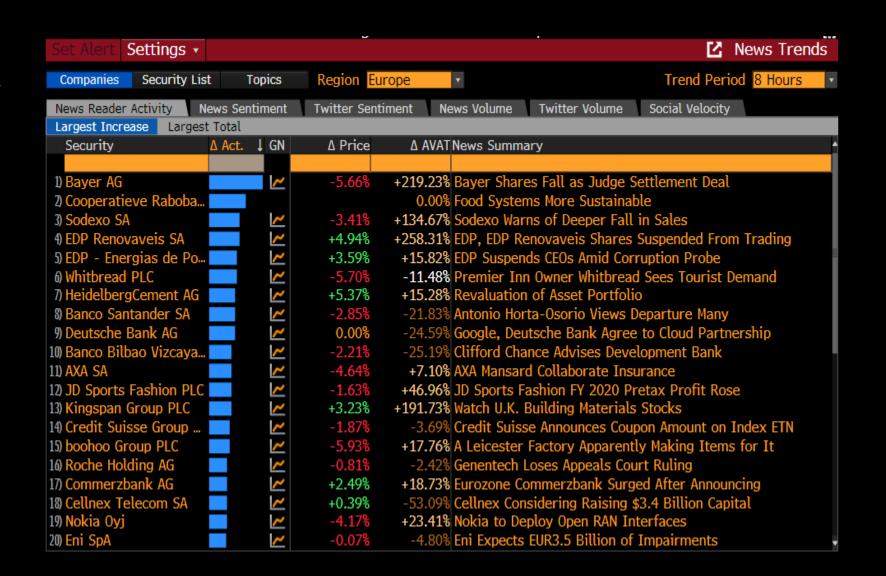
Translation Technology

- Google translate technology applied on headline and story level.
- NY analyst covering Chinese stocks, no longer at a disadvantage!



News Analytics

- News Reader Activity
- News and Twitter Volume
- News and Twitter Sentiment
- TREN<GO>



News & Social Sentiment

- Sentiment Scoring
- Sentiment/Activity Analytics:
 - GT<GO>
 - GN<GO>
- Social Media Alerting



Bloomberg Automated Intelligence

Automated News and Market Signals

Ken Kohn, Core Product News - News Automation

The Story Behind Wirecard

- April 28 KPMG can't conduct full audit, stock drops 26%
- In previous days, Bloomberg automated stories showed:
 - 4 hedge funds boosted short positions
 - Options volume spiked 3 times
 - News "heat" jumped
- June 18 \$2.1 billion missing, shares drop 62%
- In days before Bloomberg automated stories showed:
 - 3 hedge funds boosted short positions
 - Social velocity jumped
 - Implied volatility spiked

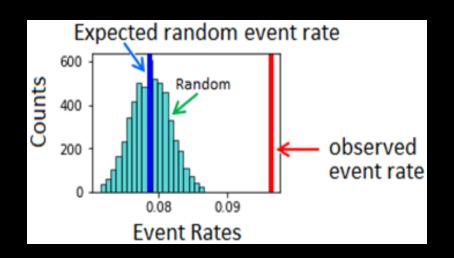


The Story Behind the Story

- News is hiding in plain sight
- Challenge Use technology to expose news in computer-driven stories that show clients value in our data and applications
- 500+ types of automated stories
- Anecdotal Evidence of signal 100+ examples
- Investigate Is it signal, or just noise?

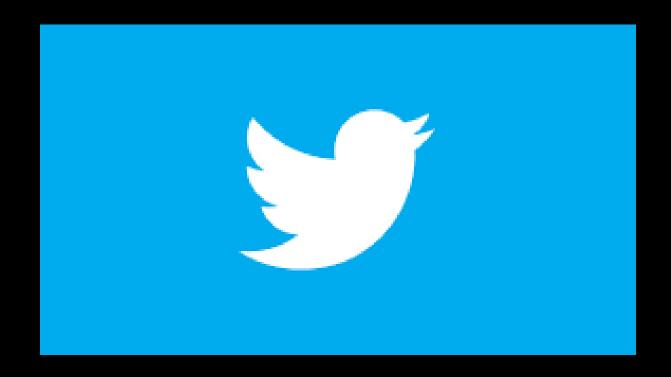
Investigating Predictive Power

- Hypothesis: Automated stories publishing before big price moves or corporate events is more than coincidence
- Test: Compare random publication of 12 automated stories with actual occurrences
- Universe: 5,000 U.S. companies from May 2018 to January 2020
- Best predictors for price movement: News heat and short interest
- Best predictors for M&A: credit-default swaps + social velocity alerts + stock volume



Client: "I want Everything" Bloomberg: "You cannot handle everything"

1)	NYC Plans to Open Public Schools in Sept., De Blasio Says (1)	BN	17:28
2)	Deutsche Bank Weighing Acquisition of Disgraced Wirecard's Bank	B BN	17:40
3)	Stocks Climb on Jobs Surprise Amid Virus Jitters: Markets Wrap	BN	16:56
1	Time Ordered News		
362)	The Gallery Where Stevie Wonder Was a Regular	NYT	17:44
360)	アメーパニュース: タモリ、杏のかわいい自慢話をほめちぎるも「自分をほめたいと思った	NS4	17:44
358)	アメーパニュース: TVアニメ「怪物事変」2021年放送決定! 小野大輔、花守ゆみり、花澤	NS4	17:44
356)	الأهرام: الكويت: توفير 75 مليون دينار لشراء لقاح لفيروس كورونا المستجد	NS8	17:44
354)	Citybiz: EyeLock Announces Global Partnership with Integral Technology Solutio	NS1	17:44
352)	HC directs Maharashtra to conduct random Covid-19 tests in	FEX	17:44
350)	Health Coronavirus Latest	PAN	17:44
348)	NIO Inc. Reports Higher Deliveries, ADRs Trade Higher on NYSE	DJ	17:44
346)	Contracts with India regarding fighter aircraft could be signed in near future	IFX	17:43
344)	SID/Leichtathletik/Verband zahlt Strafe nicht: Russlands Leichtathleten vor Sta	DJ	17:43
342)	CattleFax 6-State, Kansas/Panhandle Fed Steer Price - Jul 2	DJ	17:43
340)	COVID-19 travel advisory between Saskatchewan and northern Alberta lifted	CNP	17:43
338)	ABC News: Orlando Bloom talks powerful new movie role and his excitement on	ABC	17:43
336)	Citybiz: Tapinator Releases Letter to Shareholders	NS1	17:43
334)	Süddeutsche Ztg: Corona-Ausbruch im Landkreis Starnberg:Landrat nimmt Cater	SDZ	17:43



500 million Tweets a day



500,000 tweets are financially relevant



50 Tweets a day matter to markets



Five tweets a week break big news

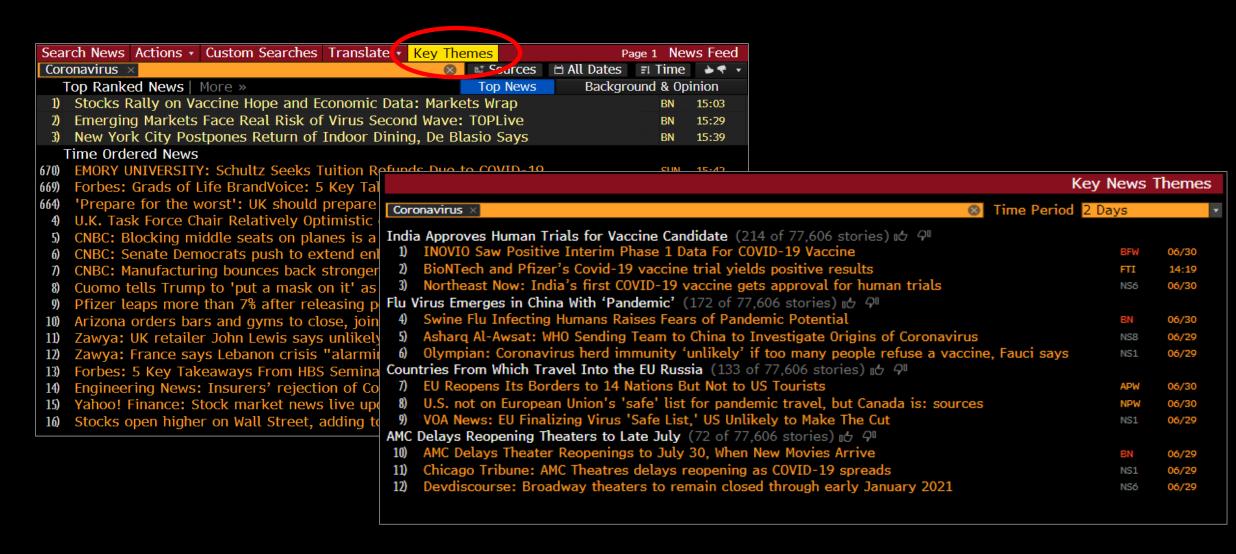


Analytics – Beyond Price & Volume

Trend Study Covid 19 / Racial Equality



Summarisation



5 Things

- 1. Data
- 2. Computer Power
- 3. Platform
- 4. Customer Focus
- 5. Domain Expertise

Event Driven Feeds: How quants can use news in event and factor based trading

Ali Mohsin, Head of Product, Event Driven Feeds

Real Time Textual News

Bloomberg News Feed

- Breaking news generated by 130+ Bloomberg news bureaus and 2,700 journalists and analysts cover all asset classes around the globe
- Supplemented by global web scrapes and licensed third-party news
- Headlines or full news stories, enriched with metadata (tickers, topics, & people)
- Multicast delivery in NY4 available for lowest latency access
- Multiple updates to stories as new information is added to stories

Real Time Textual News - Headlines

SUID	OYURQ86K50XU
Headline	*BROADCOM IS SAID TO EXPLORE DEAL TO ACQUIRE CHIPMAKER QUALCOMM
Assigned Tickers	QCOM, AVGO
Assigned Topic Codes*	ACEXCLUDE, HOT, SEM, HEADS, FIRSTWORD, US, BFWEQ, RIF, TEC, BIZNEWS, TOPBFW, TMT, MARKETS, BNSCOOP, CA, COS, USWE, BFW, NORTHAM, MSCINAMER, GLOBALMACR, MSCIWORLD, ALLHOT, BFWUS, TEL, TLS, WRLS, FINNEWS, TOP, MNASCOOP
	7.22.10.1, 51.11.00, 1.22, 1.23, 1.11.12.110, 1.01.1, 1.11.1, 1.00.00.00.

^{*} Feed messages in XML format

- SUID: Story Unique ID, provided on the feed and can be verified on Bloomberg Terminal via < NSN SUID GO>
- Story metadata produced by Human + NLP, leveraging Bloomberg's taxonomy:
 - Assigned metadata: assigned by news reporters/editors
 - Derived metadata: enriched by machine learning models (Named Entity Recognition/Disambiguation, Topic Classification, etc.)
 - Best-in-class taxonomy curated and maintained by dedicated Global Data experts and driven by content generators

Real Time Textual News - Headlines



Common use cases:

- Low latency headline driven trading
- Electronic market making in cash equity and equity options
- Algorithmic execution
- Central Risk Book
- Market risk & compliance

Q&A Session

We look forward to welcoming you to the next webinar in this series:

Trading news sentiment themes with pICA

Thursday, 23 July 2020 | 4:00pm BST / 11:00am EDT

Michael Ang, Quant Research, CTO Office Ivailo Dimov, Quant Research, CTO Office Daniel Lam, Quant Research, CTO Office

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