



Focus on what  
**truly** matters!

Extraction and  
Interpretation of  
**Trading-Relevant  
Information**



**LingRep**

Text Analytics



- What are relevant **Information Sources**?

- Data, Structured: Databases, APIs, ...
- Texts, Unstructured: News, AdHocs, Blogs, Reports, Social Media, ...



- What is **Trading-Relevant** within Texts?

- Semantic Units
  - Underlyings, Indicators, Locations, People, ...
- Explicit Information
  - Numbers & Values: Normalization, Abbreviations, Spans, Units, ...
- Context
  - Analyst Ratings, Earnings Announcements, Project Wins, ...
- Implicit Information
  - Mood & Impact: Sentiment, Impact, Relevance, Scoring, ...
  - Classification
  - Linkage



- Goals
  - Identify, Augment, Filter

Name	Germany
CURRENCY	EUR, €
Language	Deutsch
Population	81.41m
GDP 2015	3.356t USD
Poverty rate	0.10

Name	Janet Yellen
Position	Chair of the Federal Reserve
Birthdate	13.08.1946
Spouse	Robert Akerlof

**Peter Hargreaves** @PkhPeter · 19 Std.  
 Germany struggling **VW** to cut 30,000 **jobs**; desperate for trade deal  
**BMW** call **UK** Treasure Island. We need to do the **Brexit** deal now.

**Gold shifts lower to log lowest finish since June**  
**Gold futures** shift lower late in Thursday's session to finish at their lowest  
 level since June as **Federal Reserve** Chairwoman **Janet Yellen** backed up...  
 marketwatch.com

**Mark Zuckerberg Explains How Facebook Plans to Fight Fake**  
**Mark Zuckerberg** outlined several steps **Facebook** is testing to fight  
**misinformation**, an acknowledgment that the social network could b  
 wsj.com

**USA TODAY Money** @USATODAYmoney · 17. Nov.  
**Jobless claims** fell 19,000 to 235,000; **claims** have been below 300K for 89  
 straight weeks, longest streak since 1970 [usat.ly/2g1GG3i](http://usat.ly/2g1GG3i)

Name	Facebook Inc
HQ	US, California
Symbol	FB.O
ISIN	US30303M1027
Index	NAS
EPS 2016	4.23
CURRENCY	USD, \$

**2016 – the year the PEOPLE took back control: Farage hails Brexit ...**  
**ANGELA MERKEL** and **Barack Obama** are in denial over the people's  
 repeated rejection of the establishment, Nigel Farage has blasted.  
 express.co.uk

Indicator	Jobless Claims
Country	US
2016	275,000
2015	260,000



**Workplace Electric Vehicle Chargers to Increase 10X by 2022**

PR Newswire  
SAN DIEGO, June 21, 2017

SAN DIEGO, June 21, 2017 /PRNewswire/ -- With millions of plug-in electric vehicles in use worldwide, demand for smart charging solutions has become an enormous developer and investment opportunity, according to a recently published report by IoT market research firm ON World.

"Tesla with autonomous driving has captured the imagination of new car buyers who want a complete transformation in their next vehicle purchase," says Mareca Hatler, ON World's research director. "This phenomenon is reminiscent of how Apple's iPhone completely disrupted the mobile communication industry and now Tesla, Google, Apple and others are investing billions in deep learning electric vehicles that will completely revolutionize our transportation systems."

Although 80% of charging is done at home, charging availability is consumers' number one concern while driving around town as well as, increasingly, at work. ON World's 2017 survey with 2,000 U.S. EV early adopters from the Bay Area to San Diego found that over half are concerned about the availability of public charging stations.

SIGN OUT  
PASSWORD  
HELP

**AAPL NEWS** No prices available 2017-06-19 05:20  
by David Sheperdson WASHINGTON, June 19 (Reuters) - President Donald Trump will meet with the chief executives of technology companies including Apple Inc <AAPL.O> and Amazon.com Inc <AMZN.O> on Monday as the White House looks to the private sector for help in cutting government waste and improving services.

UPDATE: UPDATE 3-Tech CEOs meet with Trump on government overhaul 3 days ago REUTERS NEWS

By David Sheperdson WASHINGTON, June 19 (Reuters) - President Donald Trump met on Monday with the heads of 18 U.S. technology companies including Apple Inc <AAPL.O>, Amazon.com Inc <AMZN.O> and Microsoft Corp <MSFT.O>, seeking their help to make the government's computing systems more efficient. [...] Today it doesn't," Apple Chief Executive Officer Tim Cook said

UPDATE: \*TOP NEWS\*-U.S. Companies 3 days ago REUTERS NEWS

Apple tells court Qualcomm chip licenses are invalid [nL1N1JH00S] >

UPDATE: BREAKINGVIEWS-Trump's CEOs do more listening than influencing 2 days ago REUTERS NEWS

Amazon <AMZN.O> CEO Jeff Bezos, Apple CEO Tim Cook and Microsoft CEO Satya Nadella were among the attendees.

UPDATE: Tesla's autopilot software head quits in less than six months<TSLA.O> 2 days ago REUTERS NEWS

"Turns out that Tesla isn't a good fit for me after all," Lattner, who worked at Apple Inc <AAPL.O> for more than a decade before joining Tesla in January, tweeted.

UPDATE: Parkopedia 2017 Global Parking Index: Spotlight on Germany 2 days ago PR NEWSWIRE

Parkopedia is the world's leading parking service provider used by millions of drivers and organizations such as Audi, Apple, BMW, Coyote, Ford, Garmin, GM, Jaguar, Land Rover, Peugeot, Sygic, TomTom, Toyota, Volvo and many others.

UPDATE: Workplace Electric Vehicle Chargers to Increase 10X by 2022 2 days ago PR NEWSWIRE

"Tesla with autonomous driving has captured the imagination of new car buyers who want a complete transformation in their next vehicle purchase," says Mareca Hatler, ON World's research director. "This phenomenon is reminiscent of how Apple's iPhone completely disrupted the mobile communication industry and now Tesla, Google, Apple and others are investing billions in deep learning electric vehicles that will completely revolutionize our transportation systems."

UPDATE: Apple Co-Founder Steve Wozniak to Address Global Leaders at DC Tech Summit 2 days ago PR NEWSWIRE

Apple Co-Founder Steve Wozniak to Address Global Leaders at DC Tech SummitThe Silicon Valley icon will speak at the 2017 Future of Technology Summit [Nov. [...] WASHINGTON, June 21, 2017 /PRNewswire/ -- Computer engineer and innovation mastermind Steve Wozniak, best known as co-founder of Apple, Inc., is headed to Washington, DC on November 2(nd) to share his vision for the future of technology with leaders from local and international business, government, and social sectors. [...] In addition to co-founding Apple, Steve Wozniak has been an innovator, philanthropist, and Silicon Valley icon for many years, focusing special attention on leveraging technology for education. [...] Apple Co-Founder Steve Wozniak to Address Global Leaders at DC Tech Summit 2017-06-21T12:45:00.000Z

UPDATE: Parkopedia 2017 Global Parking Index: Spotlight on Germany 2 days ago PR NEWSWIRE

Parkopedia is the world's leading parking service provider used by millions of drivers and organizations such as Audi, Apple, BMW, Coyote, Ford, Garmin, GM, Jaguar, Land Rover, Peugeot, Sygic, TomTom, Toyota, Volvo and many others.

UPDATE: \*TOP NEWS\* Consumer Goods a day ago REUTERS NEWS



# Semantic Units IV



InfoSpoon

Dashboard > Observer

Observer LIVE

Yellen, FED

- / -

Business

Activity 46948

Filtered 0

Setup

Observer

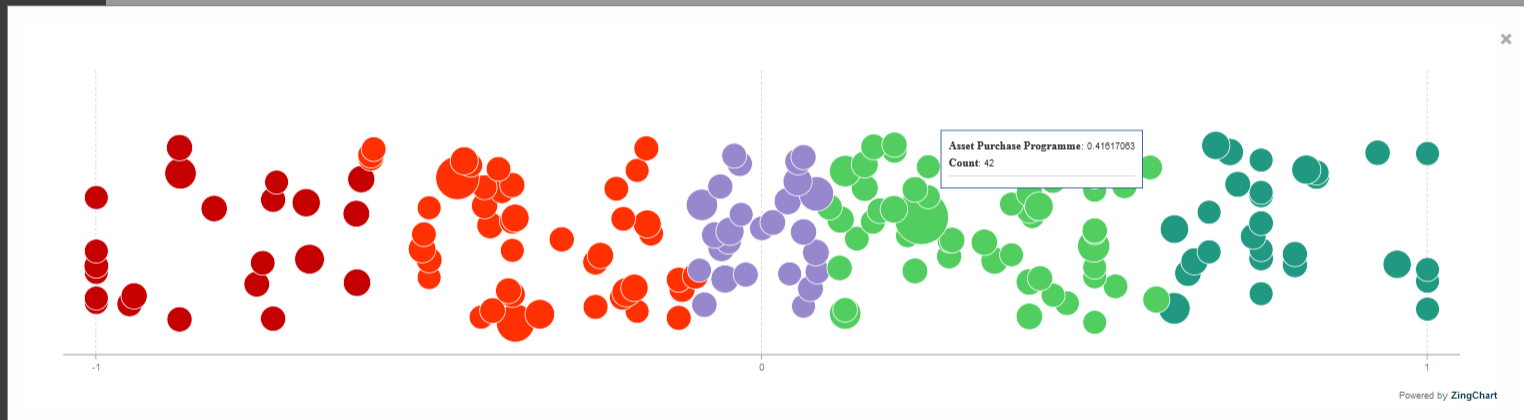
Janet Yellen Tracker

Phrase Yellen, FED  
Filter Include  
Filter Exclude  
Languages en  
Sentiment Basic Sentiment  
Classification Business Confidence, Basic Subjectivity, Test Classification  
Sources

Overview

Actions

- ▶ Start
- Stop
- ⏸ Pause



Source	Sentiment	Classification	Content	Concept
en 2017-06-23 10:48:35	0.63	👍	If the early bird gets the worm, my chicks will be well fed and healthy! Good morning world 🌍 Night Rider Agent #2	
en 2017-06-23 10:48:34	0.38	👍	RT @Benoo_Brown: Instagram needs to go back to chronological order I'm fed up with looking like a stalker liking something from five days a... HURUT HADIRAH	
en 2017-06-23 10:48:33	-0.75	👎	RT @BaFana3: Ya American jets fed by UAE Intel, killing every member of the Aulaqi tribe of Shabwah in Yemen & claiming falsely they're Al... http://yemenwar.info	United States Yemen
en 2017-06-23 10:48:32	0.38	👍	RT @JoeyTribbiani: Instagram needs to go back to chronological order I'm fed up with looking like a stalker liking something from five day... nikisa	
en 2017-06-23 10:48:32	0.54	👍	@CityofHeronrdle Makes it sound like I've done something bad to him 😬 can confirm I just let him in and fed him dreamies 🍌 Kathrynmm	
en 2017-06-23		👍	RT @Kellye_Toon: Lmaooooo he got fed up ?? https://t.co/kTINqL315H	

haslerrn ManualHelp Logout



## ■ Goals

– Normalize, Convert, Extract

■ Numbers, Scales, Units, ...

New SunEdison **65 MW** power plant costs **12,34m US\$** ( **10,94m €** ) and sold a **ten years** PPA for **\$48/MWh**

Numbers and Values					
TYPE	ENERGY	CURRENCY	CURRENCY	TIME	PRICE
NORM VALUE	65,000,000	12,300,000	10,940,000	10.0	48.0
NICE VALUE	65.0 m	12.3 m	10.9 m	10	50
UNIT	Watts	USD	EUR	Years	USD/MWh

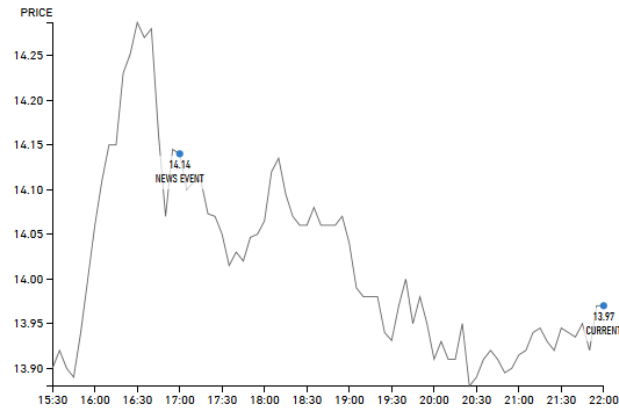


CSIQ PROJ **\$14.14** **\$13.97** -1.22% **\$14.14** 2017-04-26 13:00

Canadian Solar: **ProjectWin** (COMPLETING) PR NEWSWIRE

Canadian Solar Supplies 10 MW of Modules to the Largest Solar Project in Uganda 2017-04-26T11:00:00.000Z [...] Canadian Solar Supplies 10 MW of Modules to the Largest Solar Project in Uganda PR Newswire [...] (<http://www.canadiansolar.com/>) (the "Company", or "Canadian Solar") (NASDAQ: CSIQ), one of the world's largest solar power companies, today announced that the company has supplied 10 MW of PV Modules to Soroti Photovoltaic Plant in Uganda.

INTRA DAY PRICE 2017-04-26



RELEVANT RATIOS

PROJECTED ANNUAL SALES / TOTAL SALES + 0,03%

The projected change in sales is an important market factor.

**DESCRIPTION**  
The additional projected annual sales are put in relation to the total sales of the company and the percentage change is calculated.

**FORMULA**  
Solar Power Project [MW] \* Average Power Purchase Agreement Project [\$ /MWh] \* Capacity Factors Solar Farms (Industry Wide Data) [Ratio per MW] \* 24 \* 365

**VALUES**

Average Power Purchase Agreement Price (Industry Wide Data) 2016-03-31	10.0000 MWh 44,3 \$/MWh
Capacity Factors Solar Farms (Industry Wide Data) 2016-03-31	0,286
Revenue 2015-12-31	3.467.626.000 \$

NEW PROJECT SECURED / TOTAL PIPELINE + 0,1%

PROJECTED ANNUAL SALES + 1 109 874 48 \$





CSIQ PROJ \$14.14 \$13.97 -1.22% \$14.14

2017-04-26 13:00

## SOURCES

PR NEWSWIRE

### Canadian Solar Supplies 10 MW of Modules to the Largest Solar Project in Uganda

2 months ago

#### RELEVANT RATIOS

PROJECTED ANNUAL SALES / TOTAL SALES ✕

0,03%

The projected change in sales is an important market factor.

DESCRIPTION

The additional projected annual sales are put in relation to the total sales of the company and the percentage change is calculated.

FORMULA

Solar Power Project [MW] \* Average Power Purchase Agreement Project [\$ /MWh] \* Capacity Factors Solar Farms (Industry Wide Data) [Ratio per MW] \* 24 \* 365

VALUES

Average Power Purchase Agreement Price (Industry Wide Data)	10.0000 MW
2016-03-31	44,3 \$/MWh
Capacity Factors Solar Farms (Industry Wide Data)	0,286
2016-03-31	
Revenue	3.467.626.000 \$
2015-12-31	

NEW PROJECT SECURED / TOTAL PIPELINE ✕

0,1%

The Total Projcet Pipeline and the growth of it are important metrics for solar companies.

DESCRIPTION

The secured new projects are put in relation to the Total Project pipeline and the percentage change is calculated.

FORMULA

Solar Power Project [MW] / Total Project Pipeline [MW]

VALUES

Total Solar Project Pipeline (Utility Scale)	10.0000 MW
2016-03-31	10.419,94 MW

# Explicit Information IV



A-TRAP (Absolute Trading Application) - News Trader v3.3.0

File View Help

5 s

Date and Time	Source	Title	Items	Indicators/Wordings
2015-02-05 10:...	Thomson Reute...	IBM reporta caída de un 4 pct en sus ingresos trimestrales<IBM.N>	IBM	
2015-02-05 10:...	Thomson Reute...	IBM SHARES FALL FURTHER IN PREMARKET TRADE, LAST DOWN 8.2 PER...	IBM	
2015-02-05 10:...	Thomson Reute...	IBM reporta caída de un 4 pct en sus ingresos trimestrales<IBM.N>	IBM	
2015-02-05 10:...	Thomson Reute...	IBM извввляется от производства полупроводников за \$1,5 млрд<I...	IBM	
2015-02-05 10:...	Thomson Reute...	*TOP NEWS* Wealth Management - North America	Brent Crude Oil, IBM, GE	
2015-02-05 10:...	Thomson Reute...	*TOP NEWS* Technology, Media & Telecoms	SAP, Brent Crude Oil, IBM	QUARTERLY REVENUE, Revenue, Orders, Profit
2015-02-05 10:...	Thomson Reute...	BRIEF-IBM says no longer expect to deliver "at least \$20 opera...	IBM	EPS
2015-02-05 10:...	Thomson Reute...	*TOP NEWS*-U.S. Companies	Brent Crude Oil, IBM, MSFT	QUARTERLY REVENUE, Revenue, Profit
2015-02-05 10:...	Thomson Reute...	IBM - ERWARTEN FÜR 2014 OPERATIVES EPS, DAS 2 BIS 4 VH UNTER ...	IBM	
2015-02-05 10:...	Thomson Reute...	*TOP NEWS* Investment Banking	ADS, Brent Crude Oil, IBM	
2015-02-05 10:...	Thomson Reute...	*TOP NEWS*-Front Page	LHA, SAP, Brent Crude Oil, IBM	
2015-02-05 10:...	Thomson Reute...	LE TIITRE IBM PERD 5,5% À 172 DOLLARS DANS LES ÉCHANGES D'AVAN...	IBM	
2015-02-05 10:...	Thomson Reute...	*TOP NEWS*-U.S. Companies	Brent Crude Oil, IBM, MSFT	Profit
2015-02-05 10:...	Thomson Reute...	IBM - WERDEN NEUE PROGNOSE FÜR 2015 IM JANUAR VORLEGEN<IBM.N>	IBM	
2015-02-05 10:...	Thomson Reute...	GLOBAL MARKETS-Solid data, earnings push world stocks higher	IBM, AAPL, SAP, ECB	Cuts - Misses Guidance, Profit Warning
2015-02-05 10:...	Thomson Reute...	IBM DIT QU'IL NE SERA PLUS EN MESURE DE DÉLIVRER UN BÉNÉFICE ...	IBM	
2015-02-05 10:...	Thomson Reute...	IBM-LE BPA DES OPÉRATIONS POURSUIVIES DEVRAIT BAISSER DE 2 À 4...	IBM	
2015-02-05 10:...	Thomson Reute...	IBM posts 4 pct drop in quarterly revenue <IBM.N>	IBM	Revenue, Revenue, Net Profit, Net income GAAP, Profit
2015-02-05 10:...	Thomson Reute...	BUZZ-IBM: shares could open at 3-yr lows on Q3 miss<IBM.N><SAP...	SAP, IBM	
2015-02-05 10:...	Thomson Reute...	Wall Street - Stocks to watch del 20 ottobre	EBAY, TXN, IBM, AAPL	
2015-02-05 10:...	Thomson Reute...	IBM <IBM.N> SAYS 2014 OPERATING EPS EXPECTATIONS REFLECTS NEW ...	IBM	
2015-02-05 10:...	Thomson Reute...	IBM - ERWARTEN FÜR 2015 NICHT MEHR EIN OPERATIVES EPS VON MIN...	IBM	
2015-02-05 10:...	Thomson Reute...	UPDATE 2-Faster "cloud" orders for SAP hurt 2014 profit outlook	MCD, SAP, IBM	Orders, Operating Profit, Profit, Sales
2015-02-05 10:...	Thomson Reute...	IBM <IBM.N> SAYS EXPECT 2014 OPERATING EPS -4 PCT TO -2 PCT VS...	IBM	EPS
2015-02-05 10:...	Thomson Reute...	IBM <IBM.N> SAYS WILL PROVIDE VIEW OF 2015 IN JANUARY<IBM.N>	IBM	
2015-02-05 10:...	Thomson Reute...	PLATFORM SPECIALTY PRODUCTS CORP <PAH.N> SAYS Q3 ADJUSTED EBIT...		
2015-02-05 10:...	Thomson Reute...	BUZZ-USD/CHF TECHS-Get short on corrective upticks		
2015-02-05 10:...	Thomson Reute...	IBM <IBM.N> SAYS NO LONGER EXPECT TO DELIVER "AT LEAST \$20 OPE...	IBM	EPS
2015-02-05 10:...	Thomson Reute...	*TOP NEWS* Metals		
2015-02-05 10:...	Thomson Reute...	PLATFORM SPECIALTY PRODUCTS CORP <PAH.N> SAYS DEAL EXPECTED TO...		
2015-02-05 10:...	Thomson Reute...	BRIEF-Idea Cellular Ltd Sept-qtr profit up about 69 pct<IDEA.NS>		
2015-02-05 10:...	Thomson Reute...	Economistas recortan pronóstico de crecimiento Brasil en 2014 ...		
2015-02-05 10:...	Thomson Reute...	MORNING BID-AMERICAS-Them Apples	IBM, AAPL	Dividend
2015-02-05 10:...	Thomson Reute...	MORNING BID-AMERICAS-Them Apples	IBM, AAPL	Dividend
2015-02-05 10:...	Thomson Reute...	MORNING BID-AMERICAS-Them Apples	IBM, AAPL	Dividend
2015-02-05 10:...	Thomson Reute...	BRIEF-Hutchinson Tech announces convertible debt offering, pri...		
2015-02-05 10:...	Thomson Reute...	BRIEF-Heritage Foods Sept-qtr profit falls<HEFI.NS>		

Jump to selection
  Summarize I/W
  Simplify
  Hide uncomparred
  Hide implausible
  Hide irrelevant

ID	R	Item	Indicator/Wording	Period	Value	Comparison
8	!	IBM	Revenue	Q3 2014	\$ 22.400.000,00	< \$ 22.450.000,00
8		IBM	Revenue	Q3 2014	NONE 30,00	
999	!	IBM	Net Profit	Q3 2014	\$ 3.460.000,00	
999	!	IBM	Net income GAAP	Q3 2014	\$ 3.460.000,00	
999	!	IBM	Profit	Q3 2014	\$ 3.460.000,00	

Search Reset

IBM posts 4 pct drop in quarterly revenue <IBM.N>

Oct 20 (Reuters) - International Business Machines Corp <IBM.N> reported a 4 percent drop in quarterly revenue, hurt by weak sales in its software and services businesses.

Total revenue fell to \$22.4 billion in the third quarter from Sept. 30 from \$23.4 billion in year earlier. IBM said that the world's largest technology services company's net profit from continuing operations fell to \$3.46 billion, or \$3.46 per share, from \$4.14 billion, or \$3.77 per share.

(Reporting by Anya George Tharakan in Bangalore; Editing by Don Sebastian)

((anyageorge.tharakan@thomsonreuters.com; within U.S. +1-646-223-8780; outside U.S. +91 80 6749 7118; Reuters Messaging: Reuters Messaging; anyageorge.tharakan.thomsonreuters.com@reuters.))

Keywords: IBM RESULTS

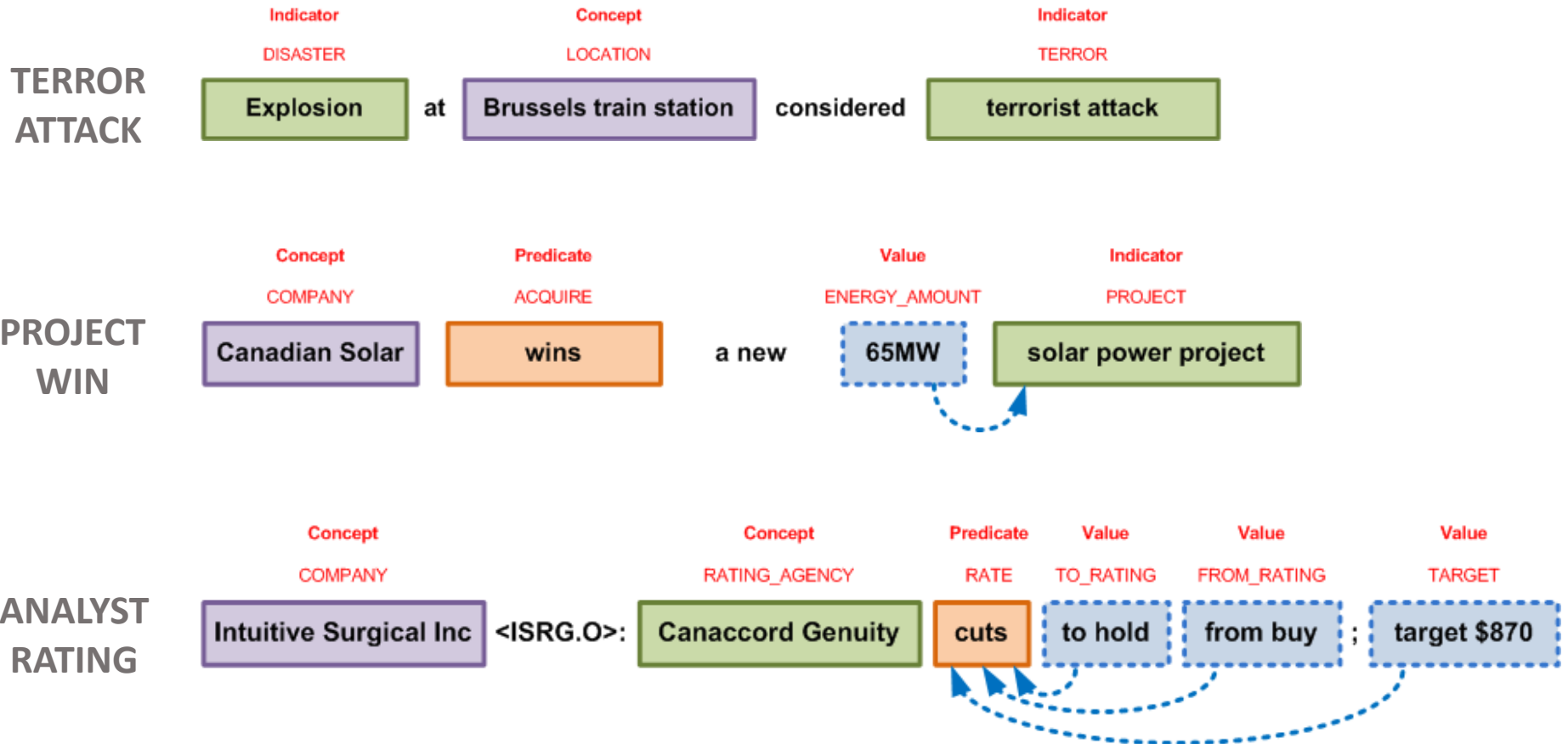
A-TRAP Markup

Select None Select All

Bracket  
 Item  
 KeyIndicator  
 Matching Rule  
 Period  
 Value



- Goals
  - Combine, Contextualize, Understand





Q • latest • AAPL • News • ORA • Ratings • SR • Solar Sector • TSLA + ⚙

MONTH

<b>NEP PRJSA</b>	<b>\$37.17</b>	<b>\$37.05</b>	<b>-0.32%</b>	<b>\$37.17</b>	2017-06-22 16:46
<a href="#">REUTERS NEWS</a> Fitch Assigns 'BB+' First-Time Ratings to Nextera Energy Partners, L.P.; Outlook Stable					
<b>JKS PROJ</b>	<b>\$20.53</b>	<b>\$20.25</b>	<b>-1.38%</b>	<b>\$20.53</b>	2017-06-22 12:50
<a href="#">PR NEWSWIRE</a> JinkoSolar to Supply 38.4 MW of PV Modules to Solar Plant in Hokkaido					
<a href="#">REUTERS NEWS</a> BRIEF-JinkoSolar to supply 38.4 MW of PV modules to solar plant in Hokkaido-<JKS.N>					
<b>JKS PRJSA</b>	<b>\$20.53</b>	<b>\$20.25</b>	<b>-1.38%</b>	<b>\$20.53</b>	2017-06-22 12:50
<a href="#">PR NEWSWIRE</a> JinkoSolar to Supply 38.4 MW of PV Modules to Solar Plant in Hokkaido					
<b>TSLA PROJ</b>	<b>\$371.52</b>	<b>\$372.24</b>	<b>0.19%</b>	<b>\$371.52</b>	2017-06-20 15:00
<a href="#">GLOBENEWSWIRE</a> VOLT Energy Vanadium Strategy Underway in Central Asia					
<b>TSLA PRJSA</b>	No prices available				2017-06-20 00:23
<a href="#">REUTERS NEWS</a> Tesla close to agreement on first production plant in China-Bbg<TSLA.Q>					
<a href="#">REUTERS NEWS</a>					
<a href="#">GLOBENEWSWIRE</a> VOLT Energy Vanadium Strategy Underway in Central Asia					
<b>SPWR PROJ</b>	No prices available				2017-06-19 22:05
<a href="#">PR NEWSWIRE</a> 8point3 Energy Partners to Announce Second-Quarter Results on June 29, 2017					
<a href="#">SHOW 2 MORE</a> <a href="#">BUSINESS WIRE</a> <a href="#">BUSINESS WIRE</a>					
<a href="#">GLOBENEWSWIRE</a> IMPORTANT INVESTOR ALERT: Lundin Law PC Announces a Securities Class Action Lawsuit against SunPower Corporation and Reminds Investors with Losses to Contact the Firm					
<b>CSIQ PRJSA</b>	No prices available				2017-06-19 13:00
<a href="#">PR NEWSWIRE</a> EDF Energies Nouvelles to Partner with Canadian Solar for an Additional 115 MWp of Solar Project in Brazil					
<b>CSIQ PROJ</b>	<b>\$13.05</b>	<b>\$13.03</b>	<b>-0.15%</b>	<b>\$13.05</b>	2017-06-19 13:00
<a href="#">PR NEWSWIRE</a> EDF Energies Nouvelles to Partner with Canadian Solar for an Additional 115 MWp of Solar Project in Brazil					
<b>CAFD PROJ</b>	<b>\$13.61</b>	<b>\$13.70</b>	<b>0.66%</b>	<b>\$13.61</b>	2017-06-19 12:00
<a href="#">PR NEWSWIRE</a> Pattern Energy Announces Key Strategic Initiatives for Major Expansion of					

SIGN OUT  
PASSWORD  
HELP



**AAPL RATE** No prices available

2017-06-12 12:56

Apple Inc: **AnalystEvent** (CUTS)

REUTERS NEWS

\* Apple Inc <AAPL.O>: Mizuho cuts to neutral from buy [...] \* Apple Inc <AAPL.O>: Mizuho cuts to neutral from buy, cuts target price to \$150 from \$160



**SMAWF PROFIT** No prices available

2017-06-15 17:30

Siemens AG: **EarningsProfitEvent** (OCCURRENCE)

BUSINESS WIRE

In fiscal 2016, which ended on September 30, 2016, Siemens Healthineers generated revenue of €13.5 billion and profit of over €2.3 billion and has about 46,000 employees worldwide.



**FSLR CRED**      **\$37.56**      **\$36.65 -2.48%**      **\$37.56**

2017-06-09 08:00

First Solar: **CreditGranted** (CLOSING)

BUSINESS WIRE

First Solar Secures Syndicated Development Loan Facility from Mizuho Bank for Utility-Scale Solar Projects in Japan 2017-06-09T06:00:00.000Z [...] This financing represents the first syndicated solar project development loan facility arranged and participated in by Mizuho Bank, and it is the third loan facility First Solar has secured with Mizuho Bank. [...] First Solar Secures Syndicated Development Loan Facility from Mizuho Bank for Utility-Scale Solar Projects in Japan

# Context IV



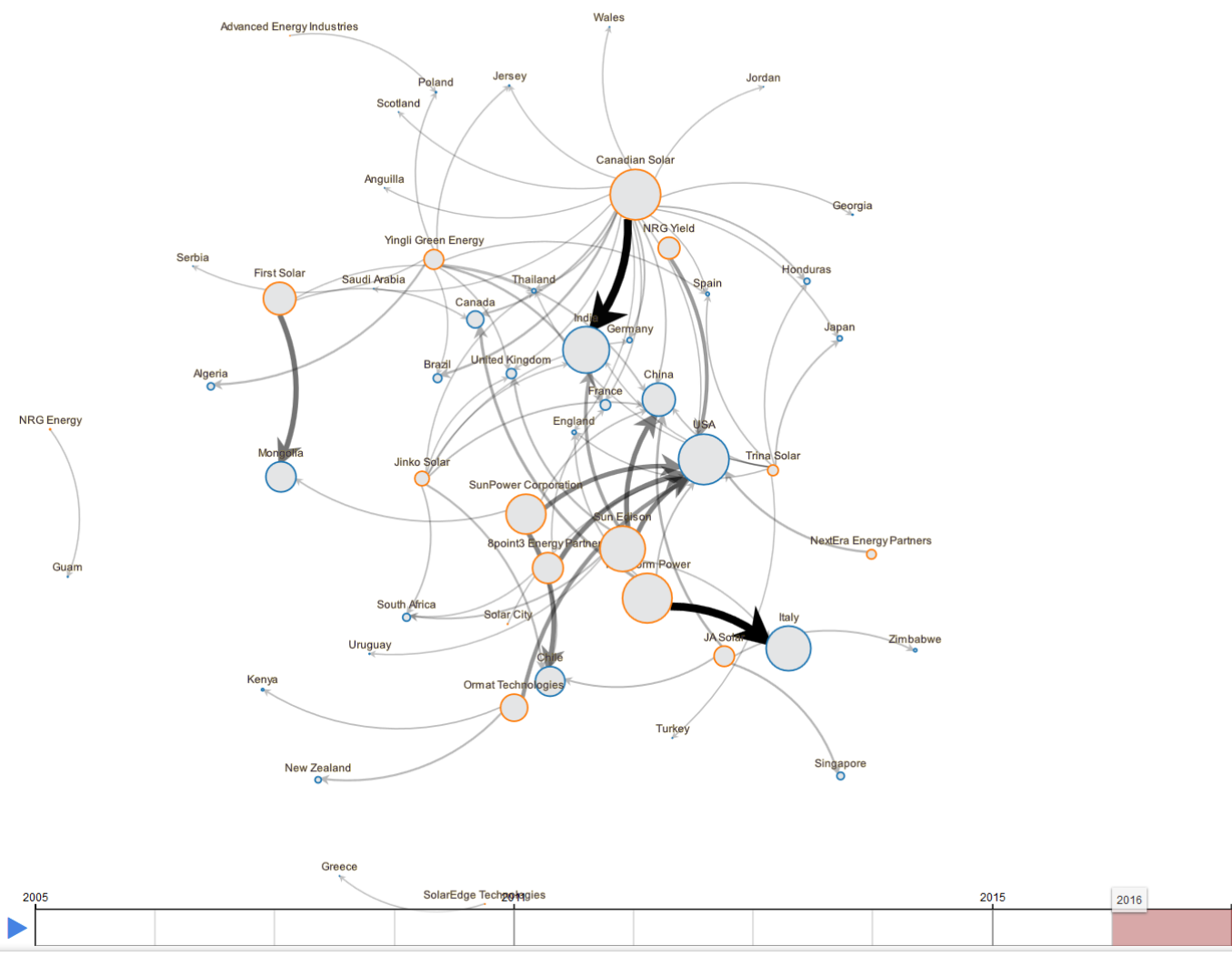
almax analytics

View  
Force Chord Bars

Filters  
Range (MW)  
0 - 5100

Reset filters Clear selection


- 8point3 Energy Partners
- Advanced Energy Industries
- Algeria
- Anguilla
- Brazil
- Canada
- Canadian Solar
- Chile
- China
- England
- First Solar
- France
- Georgia
- Germany
- Greece
- Guam
- Honduras
- India
- Italy
- JA Solar
- Japan
- Jersey
- Jinko Solar
- Jordan
- Kenya
- Mongolia
- NRG Energy
- NRG Yield
- New Zealand
- NextEra Energy Partners
- Ormat Technologies
- Poland
- Saudi Arabia
- Scotland
- Serbia
- Singapore
- Solar City
- SolarEdge Technologies
- South Africa
- Spain
- Sun Edison
- SunPower Corporation
- TerraForm Power
- Thailand
- Trina Solar
- Turkey



# Implicit Information I



- Goals
  - Interpret, Decompose, Classify

Tweet	Topic	Class	Eval
 <p>@Cheeky_Blobfish a drop of just 25% in sales would cost the German auto industry about 5 billion pounds that ginna hurt any economy</p> <p>2016/11/19 16:38:31 (165ms), <a href="#">mick</a></p>	Sales	 Buy / Sell	 -0.27
 <p>German economy creates more jobs, but employment growth slows.. Related Articles: <a href="https://t.co/0ekUh2ZVJw">https://t.co/0ekUh2ZVJw</a> <a href="https://t.co/YrXakcxA6Z">https://t.co/YrXakcxA6Z</a></p> <p>2016/11/18 17:24:34 (386ms), <a href="#">Business News</a></p>	Labor Market	 Global Economy	 -0.50
 <p>RT @shelleypetersen: German economic growth to be slower for rest of 2016: ministry <a href="https://t.co/7FbszRazeU">https://t.co/7FbszRazeU</a> <a href="#">healthinnovations</a> <a href="#">#pharma</a> <a href="#">#ban...</a></p> <p>2016/11/18 17:02:11 (460ms), <a href="#">meeeh</a></p>	Growth	 Global Economy	 -0.18
 <p>German exports to UK, U.S. fall sharply in third quarter <a href="https://t.co/WOwt59hFJ2">https://t.co/WOwt59hFJ2</a> <a href="https://t.co/SiXhzEmOW1">https://t.co/SiXhzEmOW1</a></p> <p>2016/11/18 16:06:02 (208ms), <a href="#">Vanilla Bizcotti</a>, <a href="#">Menasha, WI</a></p>	Exports	 Global Economy	 -0.75
 <p>Performance still good despite Brexit – German economy ministry <a href="https://t.co/rJZwHOgGPA">https://t.co/rJZwHOgGPA</a></p> <p>2016/11/18 07:37:26 (562ms), <a href="#">Orix Capital Trading</a>, <a href="#">Japan</a></p>	Performance	 Trading	 0.66
 <p>RT @OlafGersemann: This just in: Inflation in #Germany was .8% yoy in October, hitting a two-year high, @destatis reports. Germany <a href="#">OlafGersemann,destatis...</a></p> <p>2016/11/11 09:01:54 (424ms), <a href="#">Isabel Schnabel</a>, <a href="#">Bonn</a>, <a href="#">Germany</a></p>	Inflation	 Global Economy	 -0.25

# Implicit Information II



InfoSpoon

Dashboard > Observer

Observer ARCHIVE  
Volkswagen, VW  
- / -

FINISHED

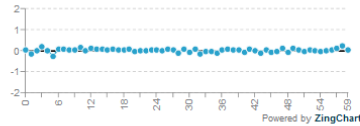
Activity 100843  
Filtered 0

Setup

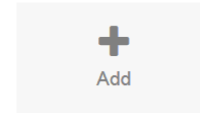
## Observer

▼ VW Archiv Observer

▲ Overview



▲ Details



▲ Insights

Source	Sentiment	Classification	Content	Concept
en 2017-06-16 22:08:48	0.25	X	RT @AutoExpress: #VW has confirmed that it will build an electric Microbus based on the classic T1 and T2 campervans: <a href="https://t.co/ZPObz3LR...">https://t.co/ZPObz3LR...</a> Ambitious	
de 2017-06-16 22:09:05			RT@autogazette #VW baut Engagement bei #Elektromobilität in #China aus. Neues Joint-Venture mit #JAC @wgroup_de... <a href="https://t.co/VPdAKE7XrW">https://t.co/VPdAKE7XrW</a> Deathstar Berlin	
en 2017-06-16 22:09:11	0.13	11 X	Building relationships! Meeting with Thiemo Cordes, Global Sales Director for #Volkswagen programs at Benecke-Kalik... <a href="https://t.co/9dR0dyRnIT">https://t.co/9dR0dyRnIT</a> Robert Uribe	
el 2017-06-16 22:08:50			Αποκάλυψη για το VW Polo 6ης Γενιάς <a href="https://t.co/MkbTFh27ID">https://t.co/MkbTFh27ID</a> <a href="https://t.co/uOB0CT2Xsm">https://t.co/uOB0CT2Xsm</a> gonevs.gr	
es 2017-06-16 22:09:28			RT @_kinghao: YALL LET SAMUEL EL QUE LE GUSTA HACER COMERCIALES DE VOLKSWAGEN GO. HOW DARE YOU? <a href="https://t.co/oAwYo8NZFq">https://t.co/oAwYo8NZFq</a> 0 0 2	
en 2017-06-16 22:09:41	-1.00	X 11	RT @yoitsno: The dead relative marketing campaign needs to chill zillow and Volkswagen Simone Spence	
en 2017-06-16 22:10:02	-0.25	X	If you drive a VW bug you probably support the ghost of Hitler. Sean	
en 2017-06-16 22:09:38	1.00		@La_ChicaBonitaa Not a lot tbh . I have a Jetta Volkswagen so they don't waste a lot of gas . Nancy B.	

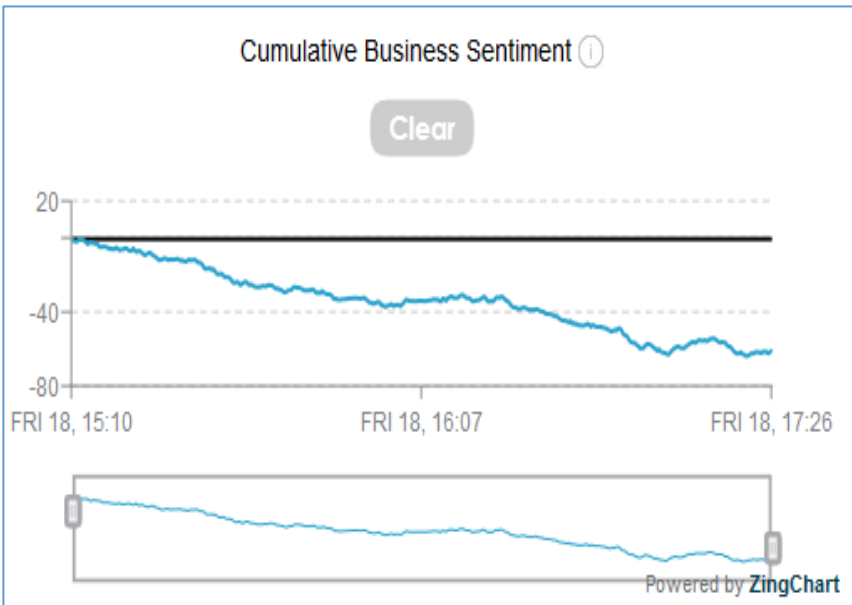
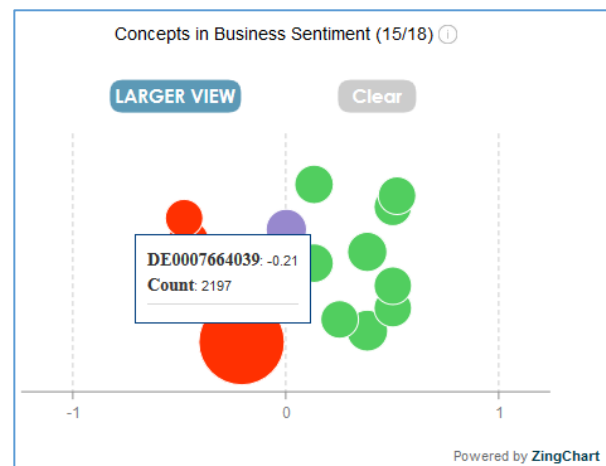
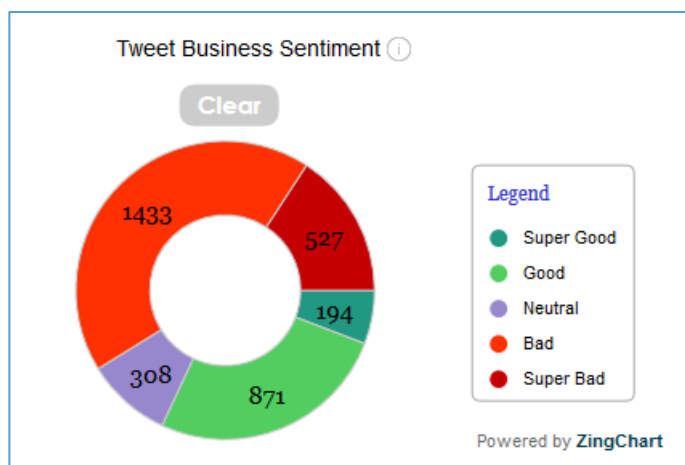
> Actions

- ▶ Start
- Stop
- || Pause





## ■ Volkswagen (VOW3, DE0007664039)



### VOLKSWAGEN VZ

ISIN DE0007664039 | WKN 766403

📉 117,45 € -0,09%

18.11.2016 17:17 -0,10 €

Aktueller Kurs:	117,45 €
Tageshoch:	120,00 €
Tagesstief:	117,05 €
Eröffnung:	120,00 €
Vortag: (17.11.16)	117,55 €
52-Wochenhoch:	139,40 €
52-Wochentief:	92,70 €
Börsenplatz:	Xetra
Gattung:	Aktie
Branche:	Automobile
Indizes:	DAX®





- Findings
  - No One-Fits-All
    - Different Sources → Different Goals
    - Tailored Processing Steps & Pipelines
      - Augmentation, Extraction, Interpretation → Take Actions
  - NLP Middle Layer
    - Text Processing + Application-specific Aggregation → Backend Unit
    - Application on Top
  - Varying Quality Requirements
  
- LingRep – TextAnalytics
  - Customizable, light-weight, simple API
  - Proven technology in
    - Finance, Insurance, eHealth, Communications, Marketing

<http://lingrep.com>, <http://processing.lingrep.com>



- Trading on Textual Information
  - **Financial Expertise** Essential
    - Sources + Experience + Impact
  - **Clear Application Goals** Required
    - Analytics
  - Even **Small Mistakes are Expensive**
    - High Risk
  
- ➔ **No Absolute Truth, but Good Indiction** on what has proven well

# Thank you!



**Marcus Hassler**  
CTO

**econob GmbH**  
9020 Klagenfurt, Lakeside B01a, AUSTRIA

+43 650 4113182

[marcus.hassler@econob.com](mailto:marcus.hassler@econob.com)

[www.econob.com](http://www.econob.com), [www.hassler.world](http://www.hassler.world)