

AI, Machine Learning and Crowd Intelligence Applied to Financial Markets

Wie können digitale Technologien die Investorenkommunikation revolutionieren?

Vienna, 26 April 2018



Agenda

Sentifi

- O1 Al, Machine Learning and Crowd Intelligence
- O2 The Iceberg of Financial Information
- How to use alternative Data for the Communication with Investors and Financial Markets







Definitions for the Age of Analytics

Artificial Intelligence (AI)

Al is the science and engineering of making intelligent machines, especially intelligent computer programs.

Today's Connectionist Al approach is data intensive.

Example for AI from our daily life: Virtual Personal Assistants (i.e. Alexa)

Machine Learning (ML)

ML is a subdomain of Al. ML is the science of getting computers to act without being expicitly programmed.

Examples for ML from our daily life: Recommendation Engines (Netflix), Self-driving Cars, etc.

Crowd Intelligence (CI)

CI is the collective (shared or group) intelligence of a massive amount of autonomous individuals. It seamlessly integrates human and machine intelligence at a large scale, i.e. via the internet.

Example for CI from our daily life: Wikipedia



How to train Algorithms for your Purpose?













How to make Algorithms work for your Purpose

Training the machines

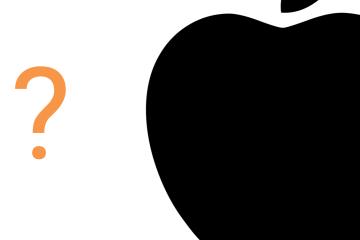
- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning

Recognition of patterns



Pattern Recognition







Pattern Recognition













How to make Algorithms work for your Purpose

Training the machines

- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning

Recognition of patterns

Rule-like behaviour

Machines do not forget things they learned

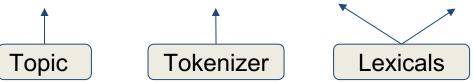




Pattern recognition and detection applied to financial markets

Event: Credit Rating

Grammar: \${ListedCompanies} {T}[6] #{Credit} AND #{Rating}



Does Microsoft Deserve a Triple A Credit Rating? → ✓

Microsoft's new Xbox game gets a 10/10 rating. →





SENTIFI LISTENING TO THE FINANCIAL CROWD

Basing investment decisions on only 10% of available information leads to missed opportunities

Sentifi Analytics complete the picture, based on millions of alternative data

TRADITIONAL FINANCIAL INFORMATION MARKET

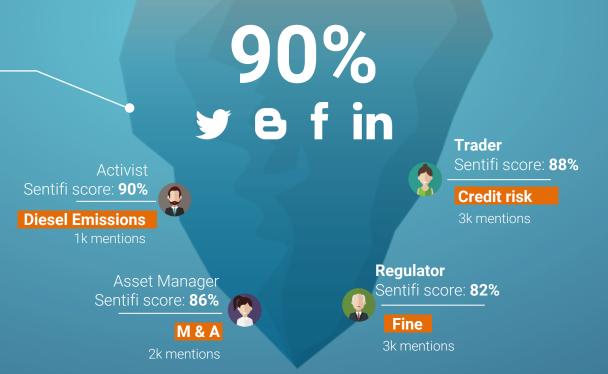
NEWS ANALYSES

Bloomberg, Reuters, WSJ and other media



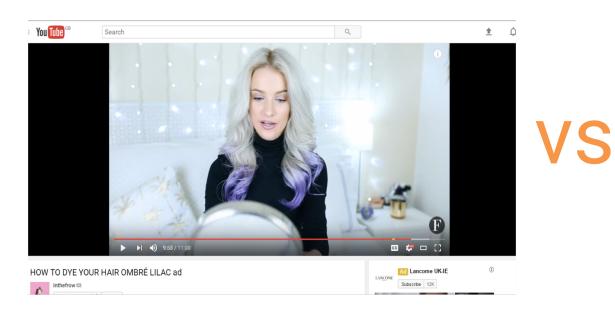
CROWD INTELLIGENCE

- Relevant actionable
 Analytics based on
 Millions of influencer
 data
- Sentifi Crowd today:15 Mio Influencers





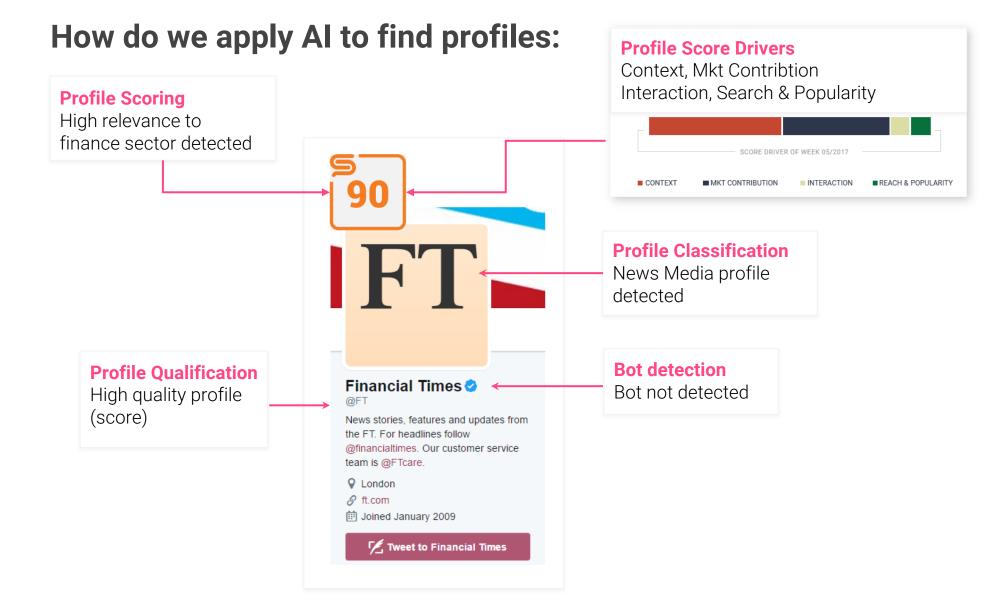
Identifying Financial Influencers





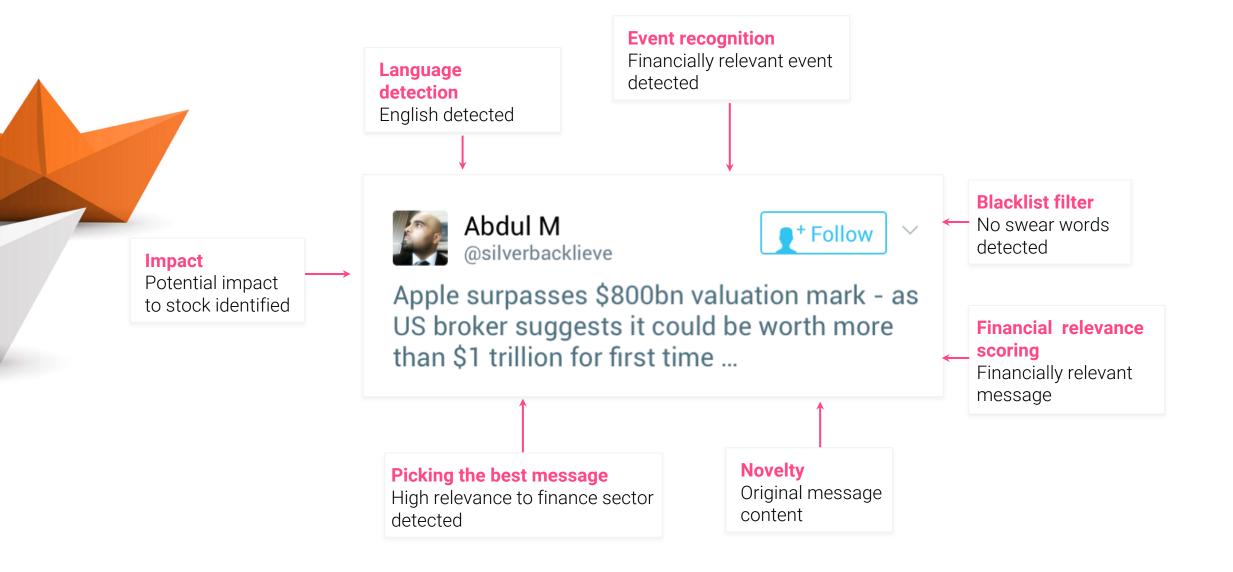








How do we use AI to find topics and events:





How to use alternative Data for Communication with Investors and Financial Markets

Pillars of Applied Al

Profiles

Topics

Events

Profile

(**ABC NEWS**, NEW YORK) — The Food and Drug Administration is warning the public that more than 400,000 pacemakers in the U.S. are in danger of being hacked.

Topic

The agency issued an alert stating that the company producing these pacemakers — **Abbott**, formerly known as St. Jude Medical — is taking "corrective" action.

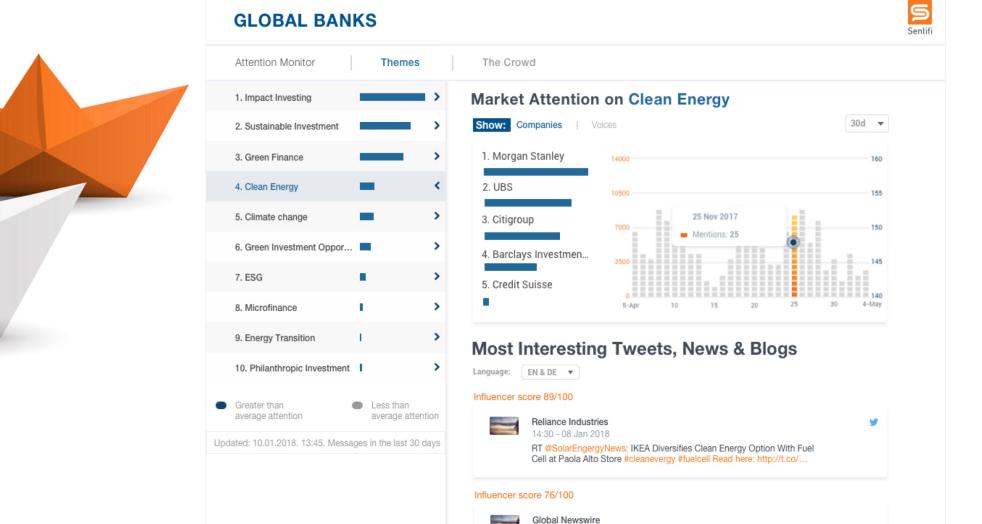
Event

The voluntary **recall** affects 465,000 radio frequency-enabled implantable pacemakers. It covers several models, including Allure, Accent, Anthem, Accent MRI, Accent ST and Assurity.





Al for the Monitoring of Trends and Risks

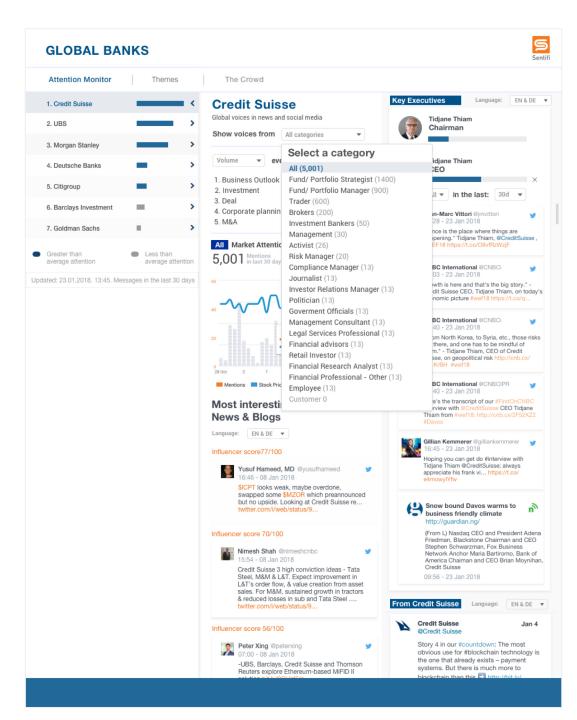


14:00 - 08 Jan 2018

Al detects and categorizes events that are potential drivers or risks for listed companies and their stock prices. The events and insights can help to discover trends early and to stay ahead of the market.

Attention monitor







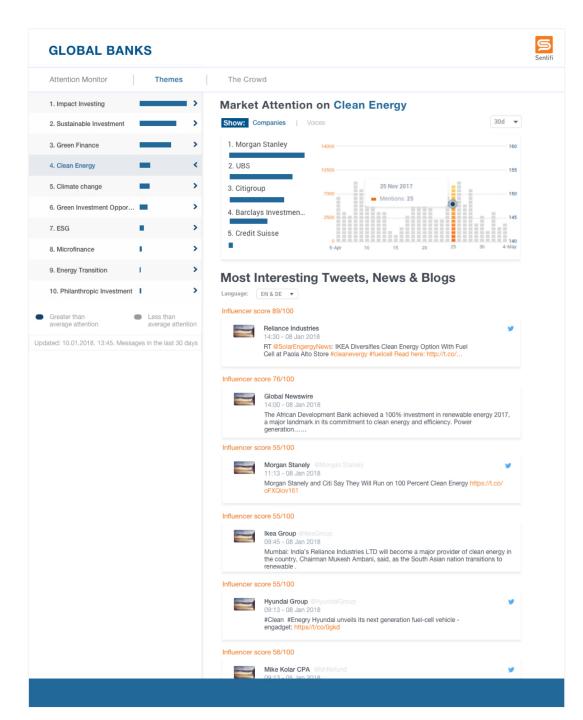
Attention Monitor:

Track the attention from the crowd around your company and your industry peers.

Identify influencers of your company and competitors and find out who is talking about which topics around those companies.

Themes monitor







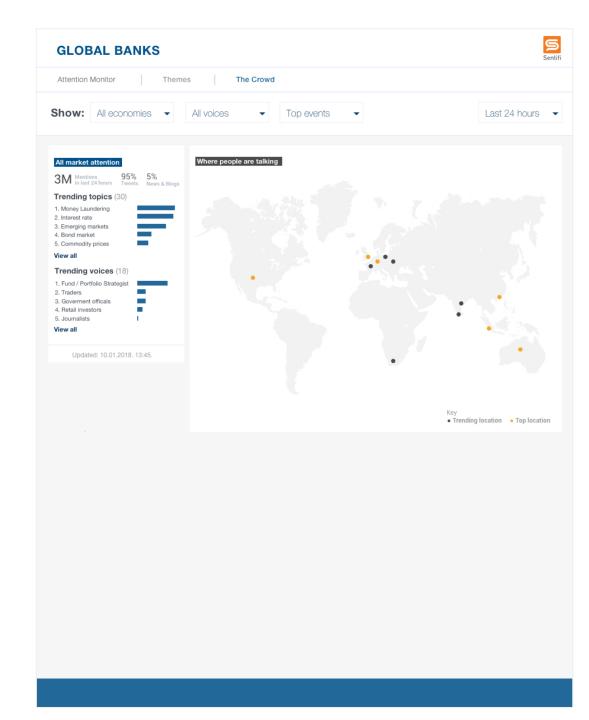
Themes Monitor:

Track and discover topics (dividends, ESG, Industry 4.0) that are discussed in connection with your company and peers within the financial crowd.

Identify topics early, monitor message perception / sentiment and act accordingly.

Crowd monitor







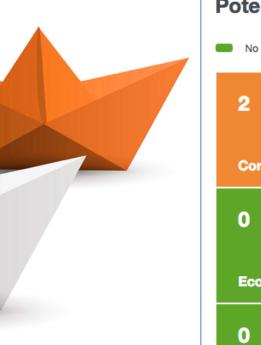
Crowd Monitor:

Find out in which **geographies** the influencers talk about your company and your peers.

Find out about macro topics within selected geographies.

Risk and Sentiment monitor









BETA Sentiment Score		
Bullish	Bearish	Neutral
75%	25%	25%

Risk Monitor:

Find out about potential risk events and use early discovery & monitoring for your risk assessment.

Crowd Sentiment:

Crowd sentiment analytics

- Asset Allocation sentiment
- Topic Related sentiment
- Financials sentiment
- ESG performance sentiment

