

BEYOND REALTIME

Predicting supply chain risks from social media

Dr. Lisa Smith

Ing. Harald Nitschinger, BA

Prewave is supported by





Supply Chains have never been more complex and intransparent

**1.000+
Suppliers**

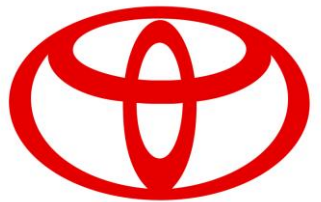
**70+
Countries**

**50+
Languages**

Disruption Risks



Labor Unrest



TOYOTA

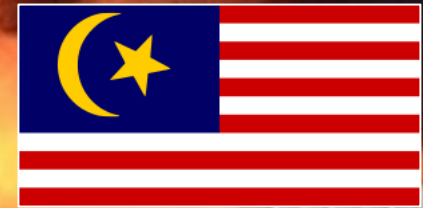


Puluhan Warga Jepara Unjuk Rasa
Minta PT SAMI Tepati Janji

Disruption Risks



Industrial Accident



HONDA

BULETIN LOKAL HONDA

Gudang pembekal Honda di Melaka terbakar



Disruption Risks



Cyber Attack



HYDRO

Cyber Attack!

Hydro utsatt for dataangrep: – Ikke opplevd lignende

Sustainability Risks



Pollution



阿迪耐克等供应商身陷污染疑云 实为标准之争

2011年07月20日09:20

《羊城晚报》

我要评论(0)

字号: T | T



Sustainability Risks



Child labor



Henry Sanderson in Kolwezi, Congo JULY 7, 2019

Congo, child labour and your electric car

Source: ft.com



Coronavirus Risks



Employee Infection



Webasto

28.01.2020

Corona-Virus

Autozulieferer Webasto bestätigt Infektion eines deutschen Mitarbeiters

Coronavirus Risks



Factory Shutdown



ArcelorMittal

**ArcelorMittal chiude a Genova
per sanificazione**

CORONAVIRUS



Social Media Penetration in 2018

64% Eastern Asia

55% Southeast Asia

63% South America

59% Central America

55% Middle East

Prewave's global supply chain intelligence is powered by our technology analyzing social & news media in 50+ languages...

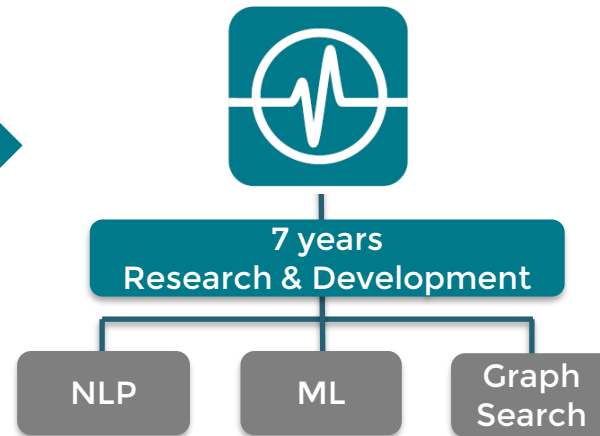
Social Media,
News, Blogs



Global
& Multilingual
+50 languages



Prewave AI



Supply Chain &
Sustainability Risks



...and generating risk alerts in 60+ categories once new risks are detected in a user's supplier network



Predictable

Labor unrest

- Labor strikes
- Labor protests
- Labor disputes
- Worker suicides



Predictable

Political unrest

- Political Protests
- Bomb Threats
- Shootings
- Terrorism



Predictable

Financial Stress

- Layoffs
- Unpaid wages
- Site closures
- Rating decreases



Predictable

Legal Stress

- Regulatory shutdown
- Lawsuits
- Corruption, Theft
- Investigations



Detectable

Industrial Accidents

- Fires & Explosions
- Building Collapse
- Workplace accidents
- Equipment failure



Detectable

CSR Incidents

- Pollution, Contamination
- Unethical labor
- Poor working conditions
- Other Misconduct



Detectable

Natural Disasters

- Floods
- Hurricanes
- Earthquakes
- Landslides



Detectable

Cyber Risks

- Data Leaks
- Cyber attacks
- Data privacy issues

Case study

BREMBO SPA (Bergamo)



Early warnings and continuous monitoring by Prewave



**Shutdown on
16 March 2020**

Case study

BREMBO SPA (Bergamo)




Early warnings and continuous monitoring by Prewave



Prewave Alert

Site closure warning

9 Mar
2020

 **Site closure warning in Lombardia, IT**
2 months ago

Lombardy and 14 provinces in isolation.
A new government measure establishes an "orange" zone with more stringent measures. Movements blocked, only allowed in case of emergency...
repubblica.it

 **Corona Virus Update happens at Brembo in Italy, IT**
3 months ago

Coronavirus: automotive companies in Italy closed due to the emergency
Limited access to factories to employees who have visited or made contact with those coming from quarantine areas....
sicurauto.it

Case study

BREMBO SPA (Bergamo)



Early warnings and continuous monitoring by Prewave



The screenshot shows a news article with a red header. The title is 'Labor strike happens in the Automotive industry (and 1 other) in Italy, IT' and it is dated '2 months ago'. The main text reads: 'Covid-19. The factories will stop until Sunday 22 March. Given the generalized difficulty of an exact and punctual application in the workplace of the health measures prescribed by the Government, to which we ask for clear and binding regulations for...'. The source is 'fiom-cgil.it'. On the right side of the article is a photograph of a person wearing a red hoodie with 'FIOM' printed on it.

Case study

BREMBO SPA (Bergamo)



Early warnings and continuous monitoring by Prewave



 **Site closure announced at Factory: BREMBO SPA (Bergamo) in Curno, IT**
2 months ago

Brembo shuts Italy plants
Automotive brake maker Brembo on Friday temporarily closed its four plants in a part of northern Italy which is among the world's worst hit by the coronavirus. Brembo said the plants at...

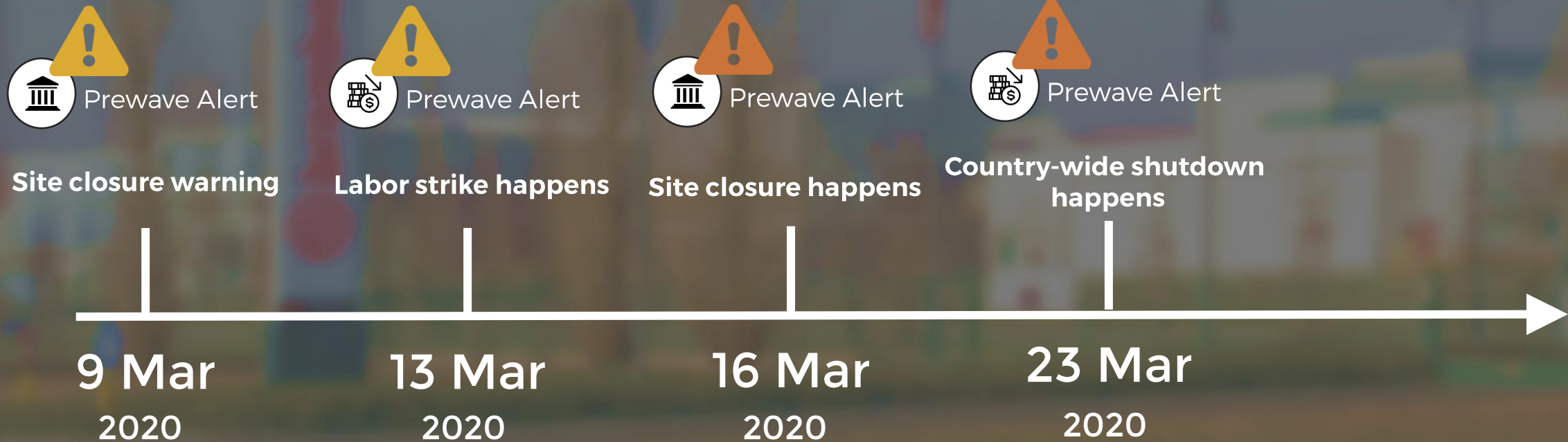
ansa.it

Case study

BREMBO SPA (Bergamo)



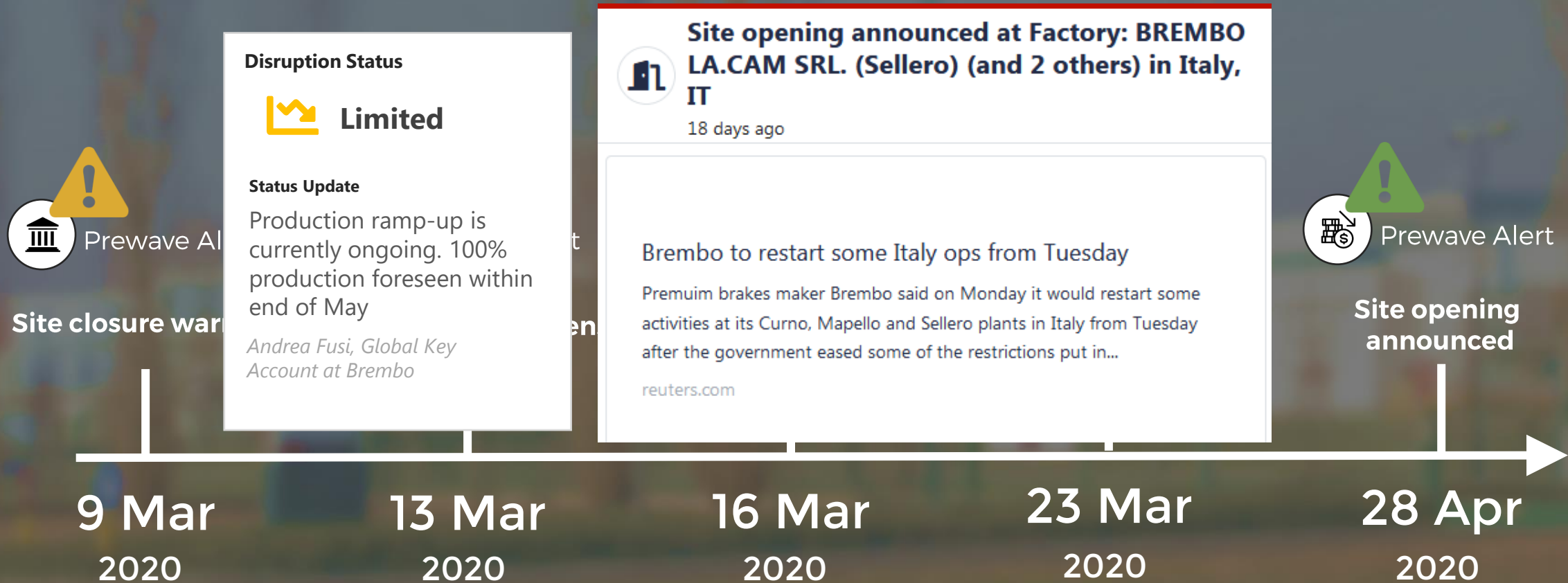
Early warnings and continuous monitoring by Prewave



BREMBO SPA (Bergamo)



Early warnings and continuous monitoring by Prewave



Case study

BREMBO SPA (Bergamo)



Early warnings and continuous monitoring by Prewave



Prewave Alert

Site closure warning

9 Mar
2020



Prewave

Labor strike h

13 Mar
2020

Profit Decline announced at Brembo in Stezzano, IT
5 days ago

Brembo sees 'significant' coronavirus impact for rest of year
MILAN (Reuters) - Italian premium brakes maker Brembo said on Monday the crisis triggered by the coronavirus pandemic would continue to have a big impact on its performance this year, after its...
[reuters.com](https://www.reuters.com)

16 Mar
2020


23 Mar
2020


28 Apr
2020



Profit
Decline

Beispiel aus Social Media Daten







**Protest/Demonstration happens at Lear (and 4 others) in Barcelona, ES**
7 days ago

 **Magna International Inc.** affected



1,400 workers have organized as "the invisible" to claim their rights after announcing the Japanese giant its closure in Barcelona
Acciona, Magnetic Marelli, Tachi S, Gestamp, Lear, Snop, ISS and Magna are the main Nissan subcontractors.1,400 workers have organized as "the invisible" to claim their rights after announcing the...

twitter.com

Magna International Inc. has not yet confirmed this alert [Request statement](#)

 Barcelona, ES  Happens / Occurs  Automotive  Local  Labor dispute  Protest/Demonstration

[Add label](#)

★ Important  Unimportant  Archive

Alert created on Jun 20, 2020 4:51 AM • 20089234 [Share](#)



Home



Explore



Notifications



Messages



Bookmarks



Lists



Profile



More

Tweet



Tweet

**El Salto** @ElSaltoDiario · Jun 18

Acciona, Magnetic Marelli, Tachi-S, Gestamp, Lear, Snop, ISS y Magna son las principales subcontratas de Nissan. 1.400 trabajadores se han organizado como "los invisibles" para reclamar sus derechos tras anunciar el gigante japonés su cierre en Barcelona



Los invisibles de Nissan

Acciona, Magnetic Marelli, Tachi-S, Gestamp, Lear, Snop, ISS y Magna son las principales subcontratas de Nissan. 1.400 trabajadores se han ...

elsaltdiario.com


8

7



More Tweets

**PODEMOS** @PODEMOS · 11h

"Los ERTE están aquí para quedarse. Hay que incorporarlos al Estatuto de los Trabajadores para que, si volvemos a pasar malos momentos en nuestro país, protejamos a las empresas y a los trabajadores y no los dejemos caer".



Search Twitter

Relevant people

**El Salto**

@ElSaltoDiario

Follow

Somos un medio de comunicación autogestionado, horizontal y assembleario. Aún publicamos en papel. Escribimos analizando.

Trends for you

Trending in Austria

#SCRRBS

2,070 Tweets

Trending in Austria

#IbizaUA

6,026 Tweets

Trending in Austria

Gutschein

Trending in Austria

#Salzburg

Politics · Trending

China

776K Tweets

[Show more](#)




CRISIS ECONÓMICA

Los invisibles de Nissan


Acciona, Magnetic Marelli, Tachi-S, Gestamp, Lear, Snop, ISS y Magna son las principales subcontratas de Nissan. 1.400 trabajadores se han organizado como “los invisibles” para reclamar sus derechos una vez que el gigante japonés ha anunciado sus planes para desmantelar la fábrica de Barcelona.








Beispiel Alert

 **Corona Virus Update happens at Brembo in Bergamo, IT**
2 months ago

At Brembo 300 employees undergo Covid Prima Bergamo prevention tests
At Brembo 300 employees will voluntarily undergo four tests to measure the virus and its effects. A research in the world of work that will be able to give useful results in an area strongly...
primabergamo.it



Brembo has not yet confirmed this alert [Request statement](#)

 Bergamo, IT  Happens / Occurs  Automotive  City  Corona Virus Update

Alert created on May 10, 2020 11:18 AM • 20047478 [Share](#)

Beispiel: Italienische Nachrichtenquelle

The screenshot shows a news article on the website 'prima BERGAMO'. The browser address bar shows the URL: primabergamo.it/cronaca/alla-brembo-300-dipendenti-si-sottopongono-ai-test-di-prevenzione-covid/. The browser's taskbar at the top lists various applications like KB, T, API, TA4AI, MUM_DEV, Monitoring 1, Discovery, LDD, NW, Matomo, Admin, Microsoft, Prewave Data Room, Accounting, and PyBossa - Project: P... The website header features the 'prima BERGAMO' logo and a search icon. The main article is titled 'BUONE PRASSI Alla Brembo 300 dipendenti si sottopongono ai test di prevenzione Covid'. Below the title is a sub-headline: 'La Rsu dell'azienda ha annunciato il programma di ricerca anti Coronavirus. Ha aderito il 10 per cento su base volontaria.' The article is accompanied by a photograph of several test tubes in a tray. To the left of the article is a vertical orange sidebar with the text: 'Cesvi, da 35 anni nelle emergenze più gravi nel mondo, oggi anche a Bergamo e in Italia.' Below this is the Cesvi logo and a call to action: 'DONA IL TUO 5X1000 A CESVI CF 9500 873 0160'. To the right of the article is a 'TOP NEWS' section with two items: 'BERGAMO CITTÀ DEI 5 X MILLE' with a sub-headline 'DONA IL TUO 5X1000 A CESVI CF 9500 873 0160' and a photo of a person in protective gear; and 'CACCIA ALL'UOMO FINITA' with a sub-headline 'Ancora un femminicidio, stavolta a Cremona: preso l'assassino in fuga'. Below this is another news item: 'TRAGEDIA NEL VARESOTTO' with a sub-headline 'Crolla cornicione davanti al market, muoiono una mamma e due figli'. On the far right of the screenshot is a large vertical image of a person in a blue protective suit and mask, with 'ANTOSNELLA' and a heart symbol written on the front.

primabergamo.it/cronaca/alla-brembo-300-dipendenti-si-sottopongono-ai-test-di-prevenzione-covid/

prima BERGAMO

BUONE PRASSI
Alla Brembo 300 dipendenti si sottopongono ai test di prevenzione Covid

La Rsu dell'azienda ha annunciato il programma di ricerca anti Coronavirus. Ha aderito il 10 per cento su base volontaria.

Cesvi, da 35 anni nelle emergenze più gravi nel mondo, oggi anche a Bergamo e in Italia.

cesvi

DONA IL TUO 5X1000 A CESVI
CF 9500 873 0160

BERGAMO CITTÀ DEI 5 X MILLE

DONA IL TUO 5X1000 A CESVI
CF 9500 873 0160

TOP NEWS

CACCIA ALL'UOMO FINITA
Ancora un femminicidio, stavolta a Cremona: preso l'assassino in fuga

TRAGEDIA NEL VARESOTTO
Crolla cornicione davanti al market, muoiono una mamma e due figli

07 Maggio 2020 ore 07:30

Alla **Brembo** 300 dipendenti si sottoporranno volontariamente a quattro test per la misurazione del virus e dei suoi effetti. Una ricerca nel mondo del lavoro che potrà dare riscontri utili in un territorio fortemente colpito dal Coronavirus.

ANTOSNELLA



- Home
- Explore
- Notifications 19
- Messages
- Bookmarks
- Lists
- Profile
- More

Tweet

Thread



Pedro Wilson Marinoni
@PedroMarinoni

Hago pública mi denuncia y espero que [@arieloviedo](#) y el [@mambiente_py](#) tomen nota. En Piquete Cue está la Firma LECOM S.A., es una curtiembre y cada vez que va llover tira sus desechos al Rio Paraguay y el olor es insoportable. Los vecinos no se animan a denunciar porque muchos...

Translated from Spanish by Google

I make my complaint public and I hope that [@arieloviedo](#) and the [@mambiente_py](#) take note. In Piquete Cue is the Firm LECOM SA, it is a tannery and every time it rains it throws its waste into the Paraguay River and the smell is unbearable. Neighbors do not dare to report because many ...



Search Twitter

Relevant people



Pedro Wilson Marinoni
@PedroMarinoni

Follow



Ariel Oviedo ✓
@arieloviedo

Follow

Ministro del [@mambiente_py](#)
[#MedioAmbienteParalaGente](#) 🇨🇺
Facebook: [facebook.com/arielov78/q4](#)



Ministerio del Am... ✓
@mambiente_py

Follow

Ministerio del Ambiente y Desarrollo Sostenible del Paraguay Tel.: 021- 287-9000 [facebook.com/mambientepy/](#)

Trends for you



Trending in Vienna

#IbizaUA

6,513 Tweets

Trending in Austria

#Blümel

Trending in Austria

#sobotka

Trending in Austria

Laptop

53.8K Tweets

Politics - Trending

#Corona

30.9K Tweets

Show more

Terms Privacy policy Cookies Ads info More

© 2020 Twitter, Inc.

Rechtliche Fragestellungen

- Der Weg zur Rechtssicherheit für innovative Tech-Startups
- DSGVO & Social Media Daten
 - Anwendbarkeit DSGVO auf öffentliche Social Media Daten
 - Profil vs. Content Daten („Posts“)
 - Nachrichtenartikel
- Copyright
 - Wiederverwendung / Verlinkung von Inhalten

Thank you!
Please contact us for any questions:
harald@prewave.ai

Prowave is supported by

Case study

科林环保技术有限责任公司

Insolvency of Kelin Environmental Equipment Co.Ltd.



First Prewave warning more than 2 months in advance



Insolvent on
17 November 2018

No English language news coverage

Case study

科林环保技术有限责任公司

Insolvency of Kelin Environmental Equipment Co.Ltd.

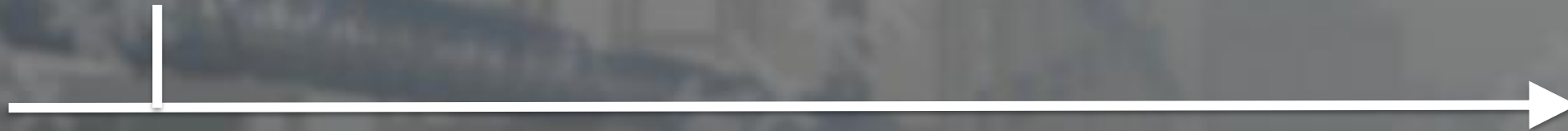


First Prewave warning more than 2 months in advance



Prewave Alert

Regulatory Shutdown
happens



14 Sep
2018


First Prewave warning more than 2 months in advance



Prewave Alert

Regulatory Shutdown happens

14 Sep
2018

 **Regulatory shutdown at Company: Kelin Environmental Protection Technology Co Ltd**
a year ago

Kelin's environmental bank account funds are frozen

Recently, Kelin Environmental announced that some bank account funds were frozen, and the frozen amount is 1.62% of the company's latest audited net assets. The company expects that the above information will be updated as the situation develops.

huanbao.bjx.com.cn

Shanghai, CN Metals, Minerals Happens / Occurs Company

您当前的位置: 环保 > 大气网 > 除尘除尘 > 正文

科林环保部分银行账户资金被冻结

北极星大气网 来源: 证券时报 2018/9/14 9:09:12 我要投稿

所属频道: 大气治理 关键词: 科林环保 智临电气 吴江法院

[百万流量曝光+专业运营团队! 环保线上讲师招募 成为签约讲师领取万元礼包 立即报名](#)

北极星大气网讯:日前,科林环保发布公告,部分银行账户资金被冻结,冻结金额占公司最近一期经审计净资产的1.62%,公司预计上述资金冻结及诉讼不会对公司生产经营产生重大影响。详情如下:

科林环保装备股份有限公司

关于部分银行账户资金被冻结的公告

本公司及董事会全体成员保证公告内容真实、准确和完整,没有虚假记载、误导性陈述或者重大遗漏。

一、基本情况

科林环保装备股份有限公司(以下简称“公司”)于近日收到苏州市吴江区人民法院(以下简称“**吴江法院**”)送达的案号为(2018)苏0509民初10225号的《传票》等文件,基于公司与江苏**智临电气**科技有限公司(以下简称“**智临电气**”)之间的合同纠纷,智临电气向吴江法院提起诉讼,要求公司向智临电气商业承兑汇票本金1,128.91万元及逾期付款利息,并由公司承担本案诉讼费、保全费。因上述事项,智临电气向吴江法院提出财产保全的申请,吴江法院已于近日冻结公司在兴业银行、浙商银行

First Prewave warning more than 2 months in advance



Unpaid wages at Company: Kelin Environmental Protection Technology Co Ltd
a year ago

Announcement on the online arrears of Liaoning Ailkolin Environmental Protection Technology Co., Ltd.

On September 20, on Baidu, it was known that Baidu's malicious defamation of the company's arrears of employees' wages seriously affected our company's reputation. The company solemnly declares as fol

...

weibo.cn

Shanghai, CN Metals, Minera

手机微博触屏版, 点击前往>>

梦醒、深蓝海:关于网上造谣辽宁艾尔科林环保科技有限公司拖欠工资一事公告

9月20日,在百度知道上有人恶意诋毁造谣公司拖欠员工工资一事,严重影响我公司声誉形象。现公司郑重声明如下:

- 1.关于公司拖欠员工工资一事与事实严重不符,完全属于谣言。
- 2.公司对于网上造谣者将追究其法律责任。

辽宁艾尔科林环保科技有限公司是一家集研发、生产、销售于一体的高新技术企业。公司依靠强大的技术优势和雄厚的资金保障,长期致力于解决装修污染所产生的甲醛、苯、甲苯、二甲苯、氨、TVOC、异味等的检测和治理。Air Cleaning 艾尔科林愿每一部汽车、每一间房子、每一个公司、每一所学校、每一个城市都能用上我们的除甲醛技术。我们的使命让您身边无甲醛。艾尔科林承诺,一次治理,终身质保,接受国家权威机构检测。请社会监督。

辽宁艾尔科林环保科技有限公司
2018年9月22日 2018-09-22 15:26:25 关注他 举报 收藏 操作

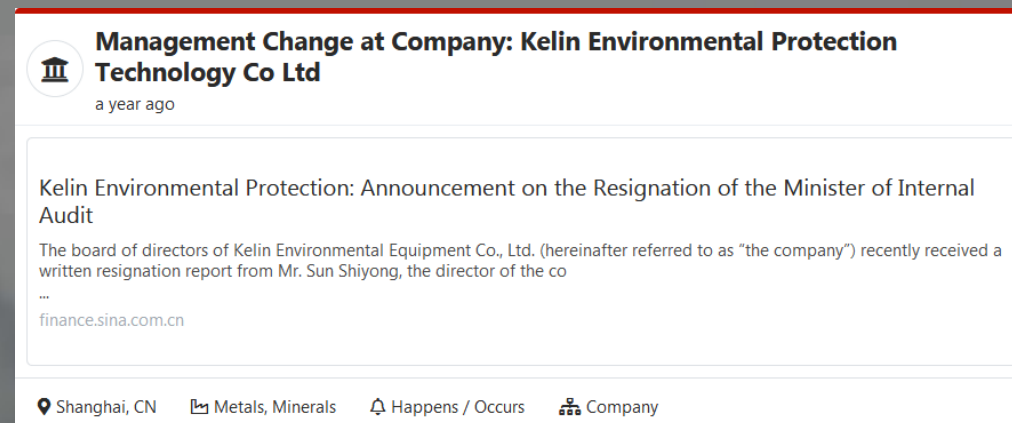
转发 评论 赞[0]

评论只显示前140字:

评论 评论并转发

Insolvency of Kelin Environmental Equipment Co.Ltd.

First Prewave warning more than 2 months in advance



Management Change at Company: Kelin Environmental Protection Technology Co Ltd
a year ago

Kelin Environmental Protection: Announcement on the Resignation of the Minister of Internal Audit

The board of directors of Kelin Environmental Equipment Co., Ltd. (hereinafter referred to as "the company") recently received a written resignation report from Mr. Sun Shiyong, the director of the co
...
finance.sina.com.cn

Shanghai, CN | Metals, Minerals | Happens / Occurs | Company

Case study

科林环保技术有限责任公司

Insolvency of Kelin Environmental Equipment Co.Ltd.



First Prewave warning more than 2 months in advance



What Prewave covers “out-of-the-box”

20.000+ Automotive & Electronics Suppliers

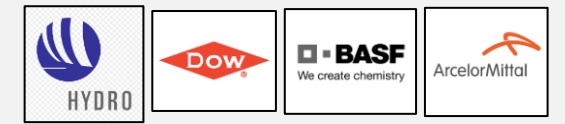


1.000+ Mines & Mining companies



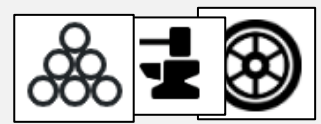
300+ Copper Mines
50+ Cobalt Mines
All Mines of: Glencore, Codelco,....

1.000+ Raw & Processed Materials Suppliers



Chemicals, Plastics,
Processed Metals, etc.

Conflict Minerals & Materials



Cobalt, Bauxite, Mica, Leather,
Lithium, Rubber, Rare Earths,
etc..

2000+ Transport Hubs



Seaports



Infrastruct.



Airports

And many more...

Coronavirus Monitoring with Prewave



Coronavirus risks

Infections, Quarantines, Regional shutdowns

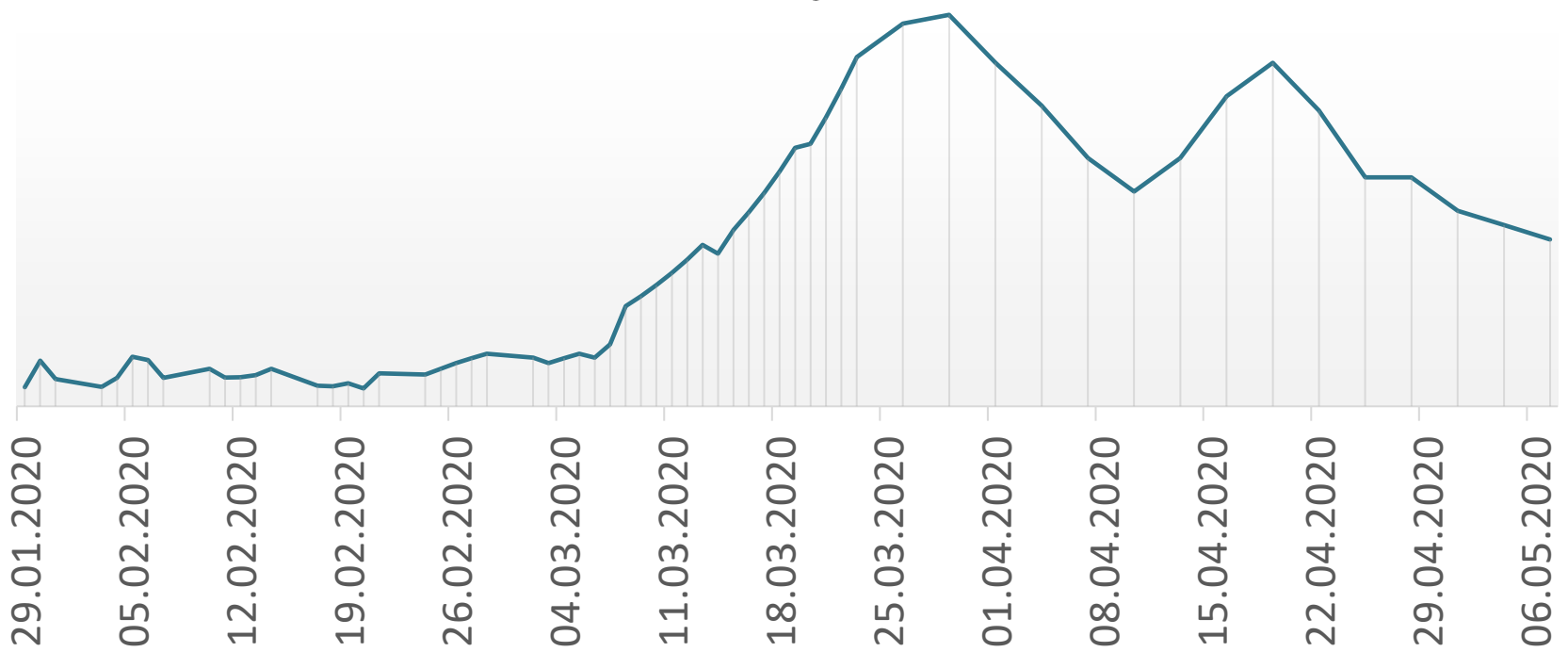
Secondary Risks Factors

- Site Closure
- Shortage
- Major Delay
- Force Majeure
- Profit warning
- Labor strikes
- Layoffs
- Short time work
- Insolvency

Crisis Resolution

Re-openings

Coronavirus Message Volume on Prewave



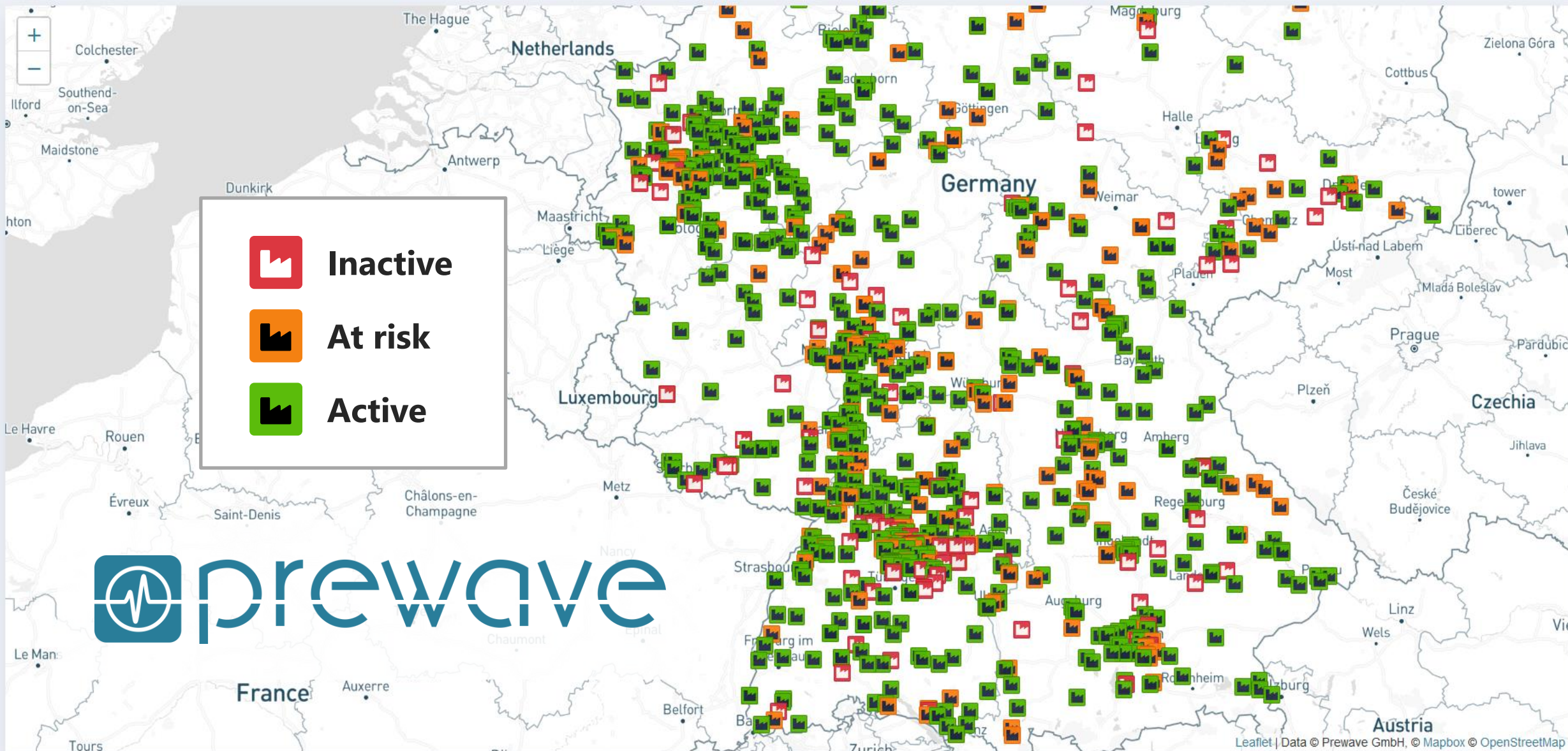
764

Alerts created

8.449

Affected Factories

Coronavirus Disruption Map covid19.prewave.com




Supplier Status Updates

← ALERTS POIS

Factory
STA SpA (Castello d'Argile)
Castello d'Argile, IT

Disruption status [Request update](#)


 Limited


2020-05-15 10:10 • History

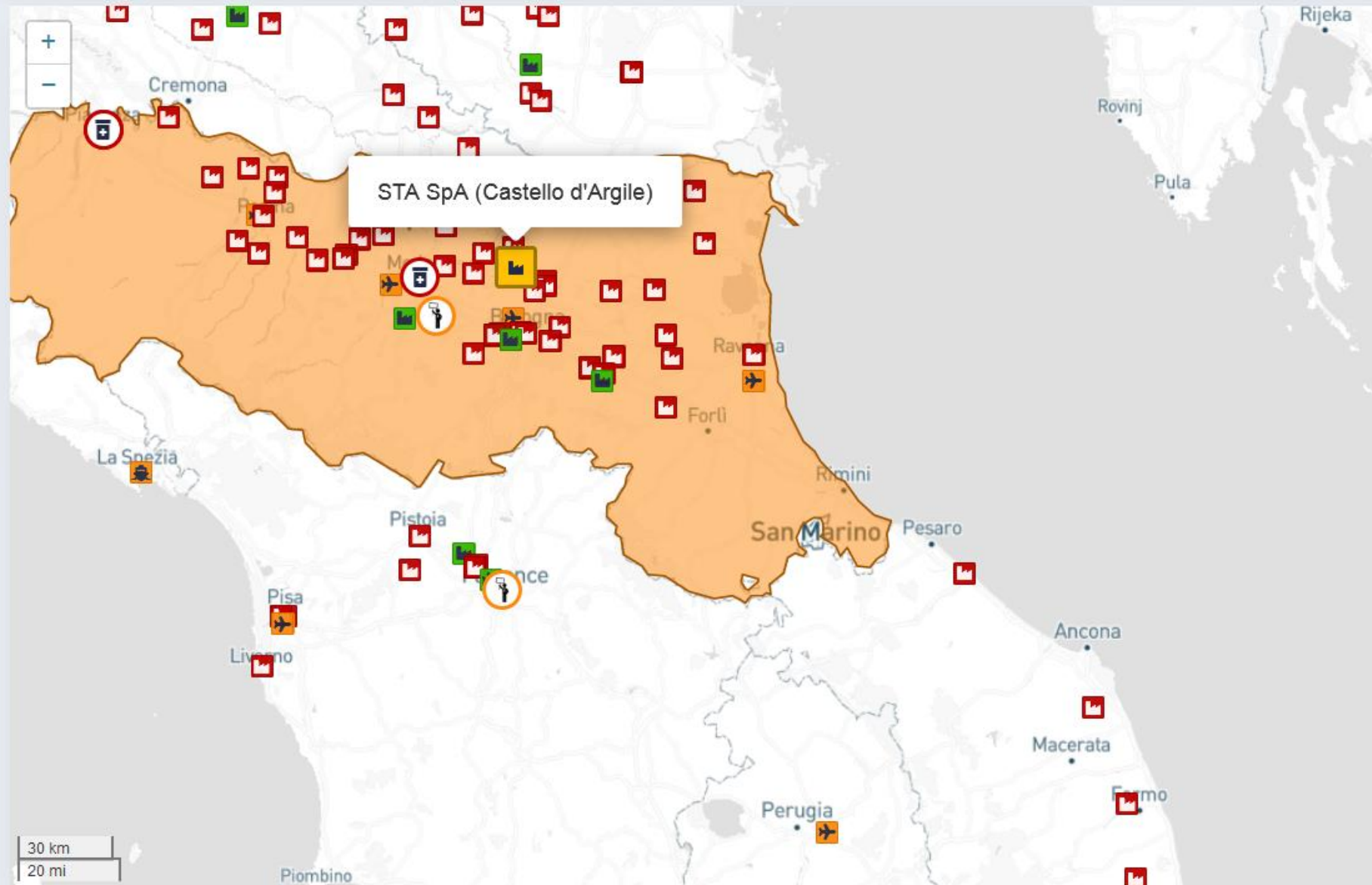
Our production unit is operative at only 80% this week and next week. We are scheduled to resume 100% on week 22.

Show less

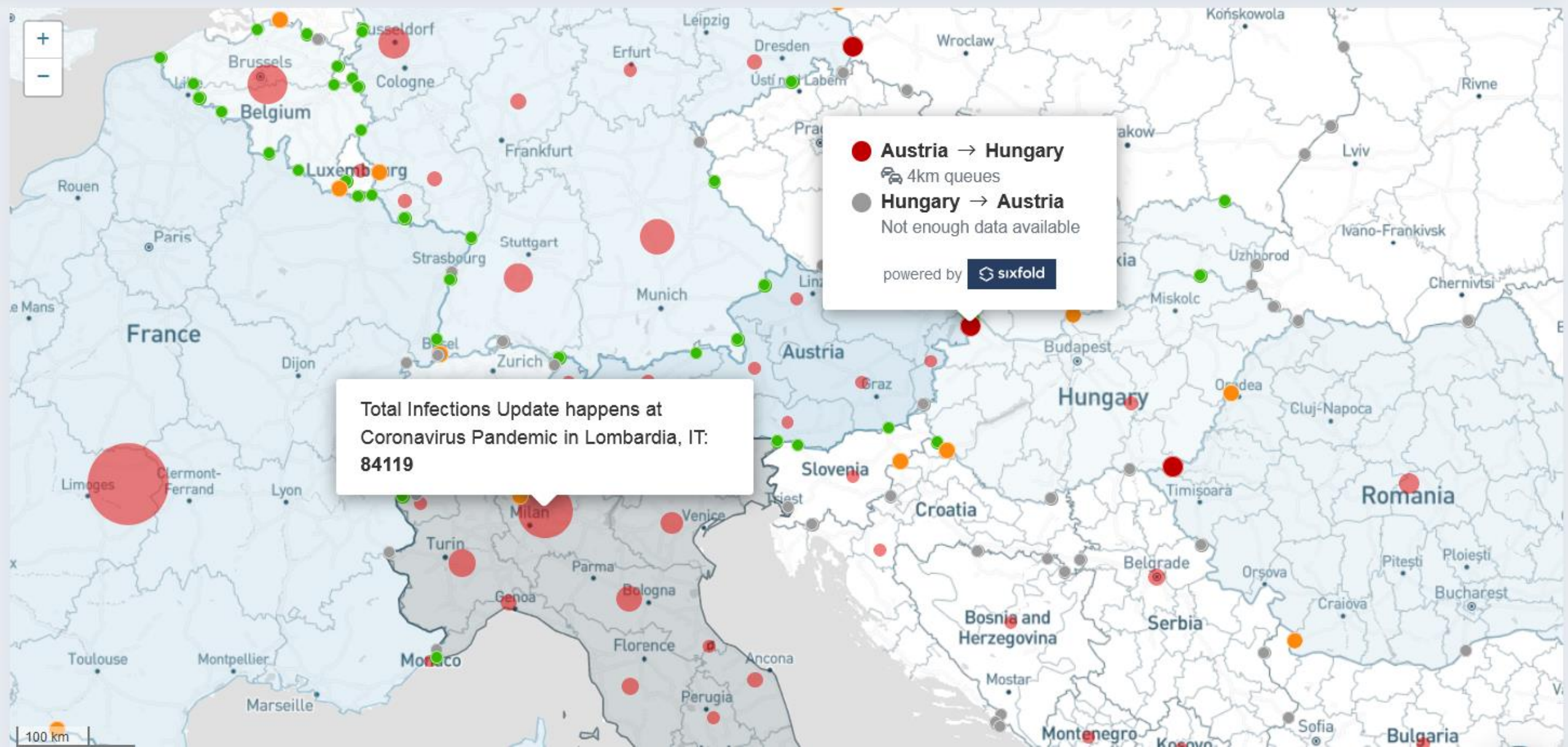
Sharie Lein Sanque, Customer Care

 2020-03-23 **Site closure announced in Italy, IT** regional
Announcement / Broadcast

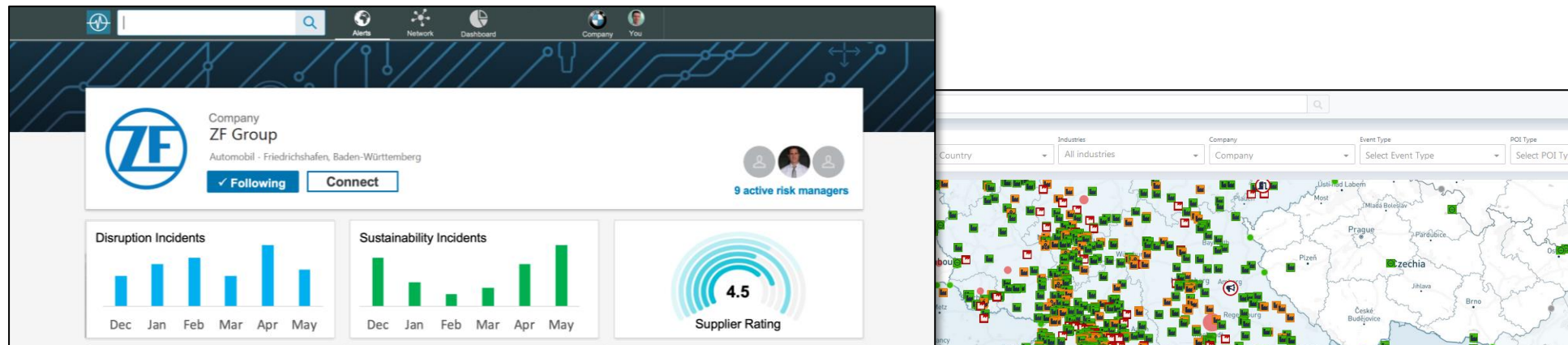
 2019-10-25 **Labor strike announced in Italy, IT** regional
Announcement / Broadcast



Border Delays & Infection Rates



Next Generation Supply Chain Intelligence Platform



Sign up now for a free trial
www.prewave.com

