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#SEMIFORM2020  
online workshop, 02/11/2020

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 carolscarton



WeVerify project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825297



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WHY WEVERIFY?



**Video shows US  
protesters  
storming the  
White House?**

May 31 at 3:39 PM · Q

4wrdd msg. Protestors already broke inside white house for the first time in American history,, gun fire at east gate and some sources said Trump fled with his family to Kanzas , CIA have emergency meeting in

**FALSE**

AFP

This video was taken during a protest at Ohio Statehouse

Credit: Zlatina Marinova (Ontotext)



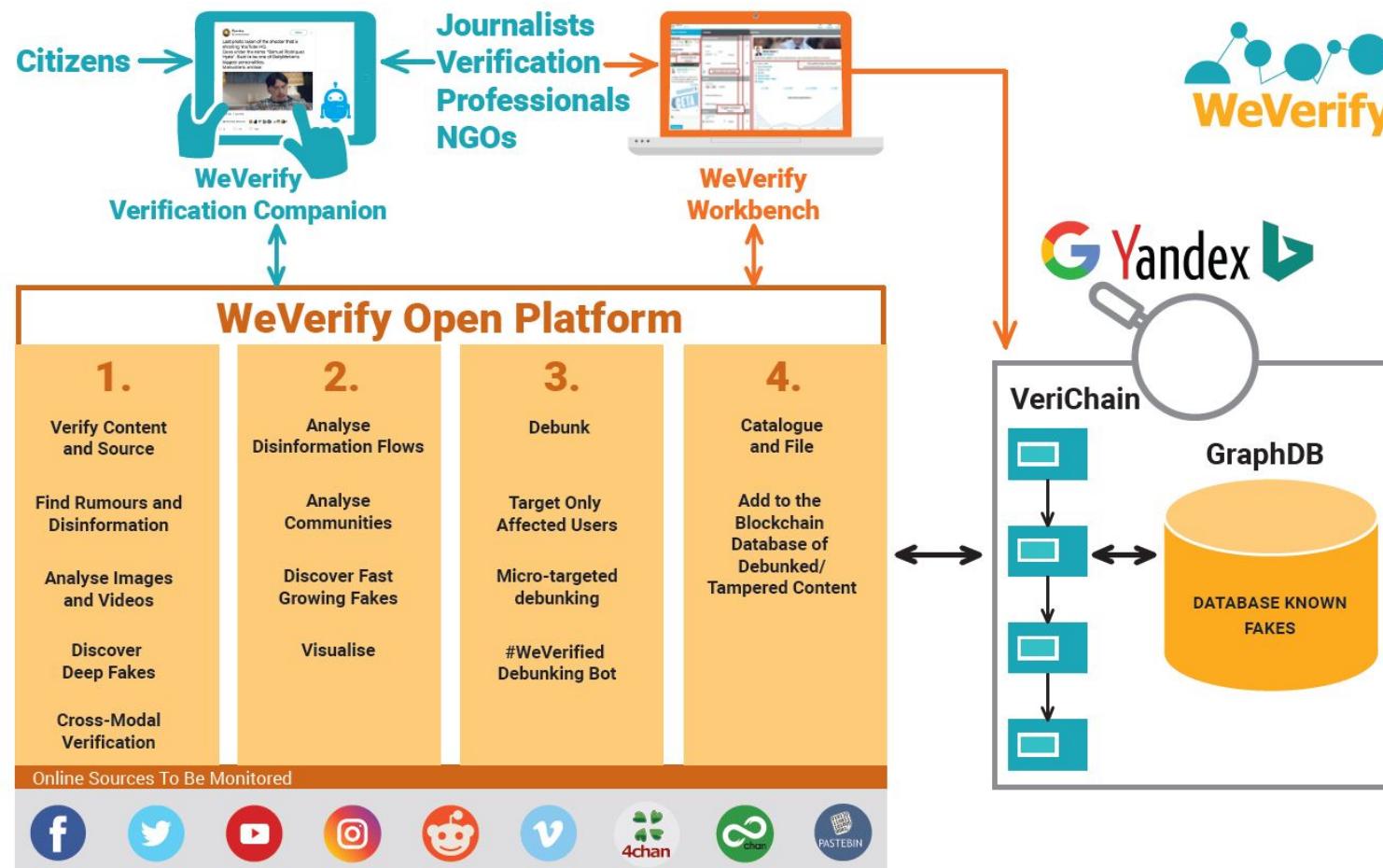
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# WeVerify Architecture



<https://weverify.eu/>





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# TRULY MEDIA: COLLABORATIVE CROSS-MODAL VERIFICATION WORKBENCH



# Feeds    Explore    Monitor

+ Add collection

George Floyd update 6 days ago

Howard University update 19 days ago

COVID-19 & 5G updated 4 hours ago

CrowdTangle This collection will contain... updated 4 hours ago

COVID casualties updated a month ago

Hanau Shootings updated 2 months ago

Coronavirus

George Floyd update 6 days ago

Howard University update 19 days ago

COVID-19 & 5G updated 4 hours ago

CrowdTangle This collection will contain... updated 4 hours ago

COVID casualties updated a month ago

Hanau Shootings updated 2 months ago

COVID-19 and 5G

European Commission EU #UnitedAgainstCoronavirus @EU\_Commission 12:08PM - 10 Jun 2020

In the midst of the pandemic, it is important we follow the science and get our facts straight:

The #coronavirus does not spread through 5G telecommunication networks.

Here are 4 important facts 📈 #EUvsDisinfo #FactsMatter <https://medium.com/@EuropeanCommission/5g-and-the-coronavirus-the-one-myth-weve-all-heard-of-10d33de26045>

52 118

TechCrunch @TechCrunch 1:17AM - 10 Jun 2020

Twitter starts putting fact-checking labels on conspiracies about 5G and COVID-19 <https://tcrn.ch/3dMx3m0> by @tayhatmaker

46 108

Bloomberg QuickTake News 3:01AM - 10 Jun 2020

Coronavirus Updates: One Blood Type May Protect Against Virus; Covid-19 Is Fauci's 'Worst Nightmare'

Live

410.1k 2.1k 1.8k

24horas.cl 9:50PM - 4 Jun 2020

Covid-19: cobertura multiplataforma del Departamento de Prensa de TVN por coronavirus

New feed

Fill out a name for the new feed

COVID-19 YouTube

Select a Social Media Platform

Search criteria

coronavirus, COVID-19

Translate to

Add feed

Credit: Zlatina Marinova (Ontotext)



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# TRULY MEDIA: COLLABORATIVE CROSS-MODAL VERIFICATION WORKBENCH



COVID-19 & 5G<sup>①</sup>

SHARED

Type URL to add...

Add



Any status ▾ false-claim ▾ Any source ▾ Any assignee ▾ ⚡ 🔎

Date added (newest) ▾



1

2

>

>>

Any tag

- false-claim
- fact-check
- consequence

SHARED

lesmoutonse

5:30PM - 6 Ma

[MàJ] 5G-Nocide – Première corrélation repérée entre la 5G et une Mutation Virale ou Bactérienne ?! – Les moutons enragés

Lorsque je suis tombé sur cet article de Sputnik la semaine dernière : Ce que l'on sait du nouveau virus qui a déjà fait un mort (2 à l'heure où j'écris ces lignes) en Chine et se propage à l'...



false-claim ✕ Add tag

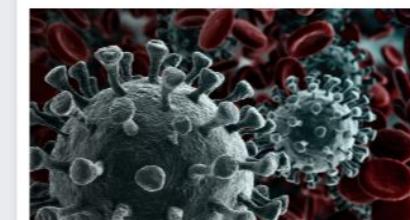
SHARED

worldtruth.tv

11:56AM - 6 May 2020

Does 5G Exposure Alter The Structure and Function of Hemoglobin, Causing Coronavirus Patients To Die From Oxygen Deprivation? | WorldTruth.Tv

Is 5G to partially blame for coronavirus deaths? Can 5G cause the blood that's circulating in your body to be unable to carry oxygen? What's especially horrifying about the critical care of coronavirus ... [Read more](#)



SHARED

kerberos-hellas.blogspot.com

6:06PM - 4 May 2020

ΚΕΡΒΕΡΟΣ: 5G ΚΑΙ ΚΟΡΟΝΟΙΟΣ Α ΠΟΤΕΛΕΙΩΝΟΥΝ ΤΟΝ ΑΝΘΡΩΠΙΝΟ ΟΡΓΑΝΙΣΜΟ! Στερητικό σύνδρομο οξυγόνου από το δίκτυο 5G Δρ Μέτσης: «Η τεχνολογία δεν μεταδίδει τη νόσο, αλλά η ενέργεια της συχνότητας (60 GHz) απορροφάται από τον οργανισμό Τη ώρα πο...



false-claim ✕ Add tag

SHARED

Diane Alexander

@dalexan909

6:23AM - 7 Apr 2020

@ChristinePolon1 I just now started researching 5G. I found 5G coverage worldwide to shockingly mirror COVID-19 worldwide. The most concentrated areas of 5G = the most concentrated areas of corona. Countries that don't have 5G? Few corona issues. Could this be mere coincidence? Statistical odds?



false-claim ✕ Add tag



Credit: Zlatina Marinova (Ontotext)





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# TRULY MEDIA: COLLABORATIVE CROSS-MODAL VERIFICATION WORKBENCH



Verification Tools  
< Back to "Coronavirus"

**Checklist**

- Latitude Longitude
- Preservation link
- Related Links**
- Content
  - Reverse image search results are related to:
    - No results found
    - Same event
    - Other event
  - Is this the original?**
    - Yes
    - No

Comments:  
It was fact-checked and found fake at  
<https://gnews.com/url.html?>  
<https://www.boomlive.in/fake-news/video-shows-chinese-policemen-killing-coronavirus-patients-factcheck-6885>
  - Earliest version
    - Date
    - Time
    - Time zone

Similar content (add url, etc.)  
<https://gnews.com/url.html?>  
<https://www.boomlive.in/fake-news/video-shows-chinese-policemen-killing-coronavirus-patients-factcheck-6885>
  - Is metadata available?
    - Yes
    - No
  - Add location for weather information
- Source
- Crediting & Permission
- Attachments
  - Upload attachment



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Content Source Location Context

**David Icke** @davidicke View mentions

Official Twitter of ground breaking Author & Public Speaker, David Icke. Watch David's Brand New Film 'Renegade' Here - <http://radi.al/Renegade> #davidicke

Translate

Isle of Wight, England

<http://www.davidicke.com>

Joined August 18, 2009

GMT+0300

Followers you follow

Tweets near Isle of Wight, England

Tweets 43,951   
Following 269   
Followers 333,122   
Listed 2,301

ITEM NOTES

Credit: Zlatina Marinova (Ontotext)



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# VERIFICATION BROWSER PLUGIN



In video veritas

Tools Tutorial Learning Interactive About



EN



Analysis



Video rights



Keyframes



Forensic



Thumbnails



Tw. search



Magnifier



Metadata

Feedback

Available for Chrome, Firefox and Opera



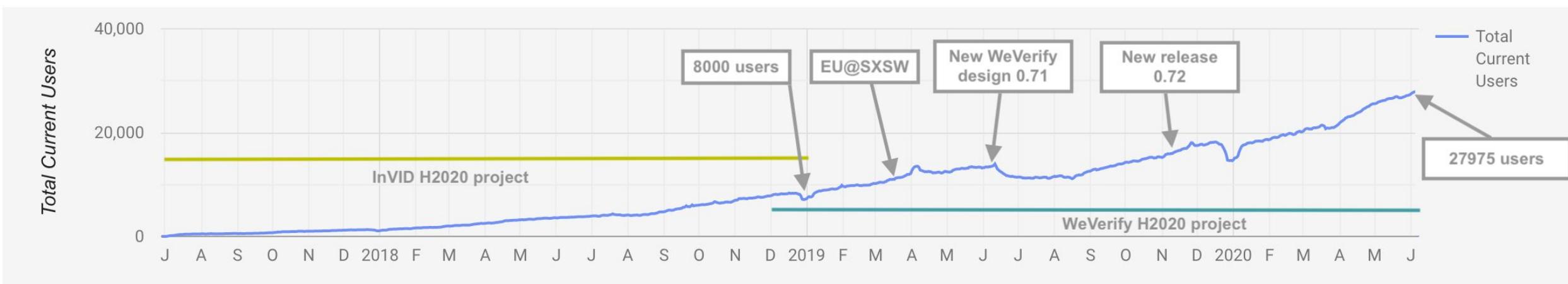
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## VERIFICATION BROWSER PLUGIN



USAGE HAS TRIPLED WITH NEW WEVERIFY RELEASES



Graphic made from Google Chrome web store statistics (June 7, 2020)



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Credit: Zlatina Marinova (Ontotext)



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## VERIFICATION BROWSER PLUGIN



USERS :



The New York Times



Made for minds.



AFP Fact Check



franceinfo:



THE OBSERVERS

THE TIMES OF INDIA  
TIMES FACT CHECK

Neutral

the quint



POLITIFACT

La República

NIEUWSCHECKERS



Khaleej Times

» Vanguardia

cameroun  
actuel

FACT  
crescendo

AMNESTY  
INTERNATIONAL

AND MANY MORE ...



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Credit: Zlatina Marinova (Ontotext)



# VISUAL EXPLORATION OF DISINFORMATION NETWORKS

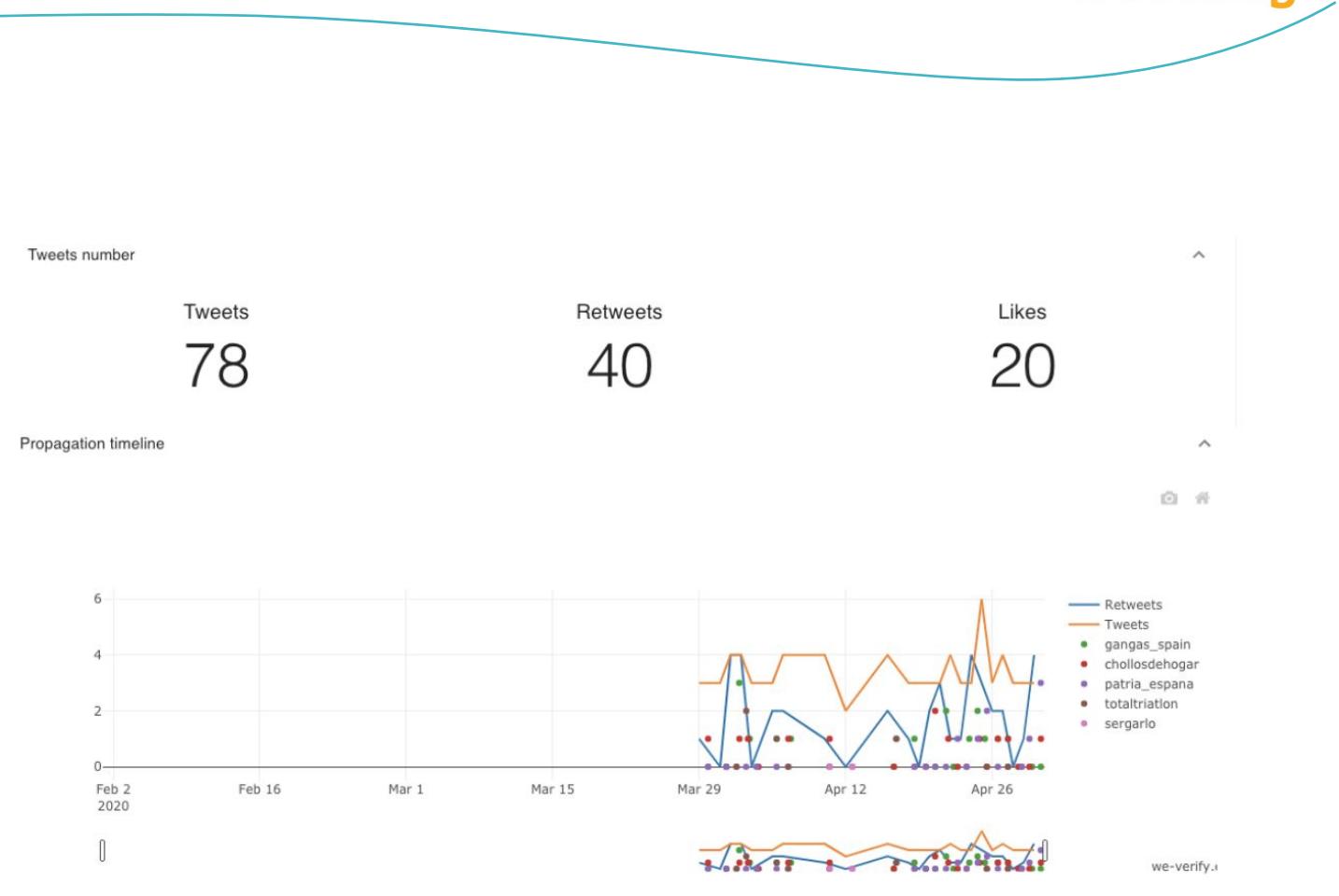
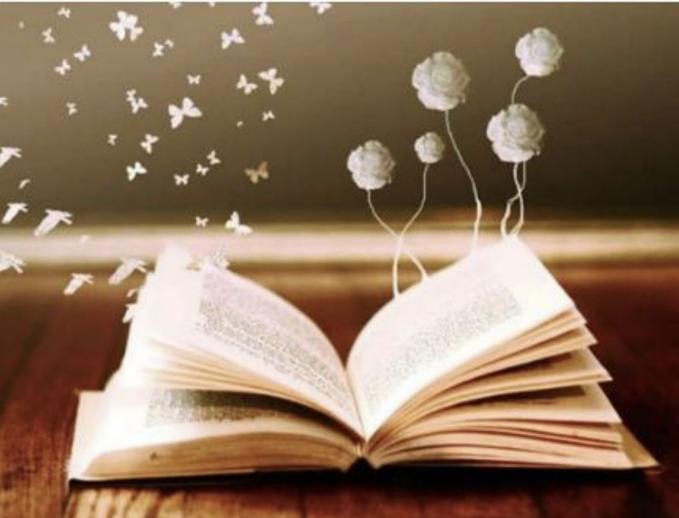
Verdadera Izquierda

April 26 at 3:02 PM ·

Aprovecha estos días de confinamiento para disfrutar del placer de la lectura con 2 meses gratis de Amazon Kindle Unlimited <https://amzn.to/33VO1ds>

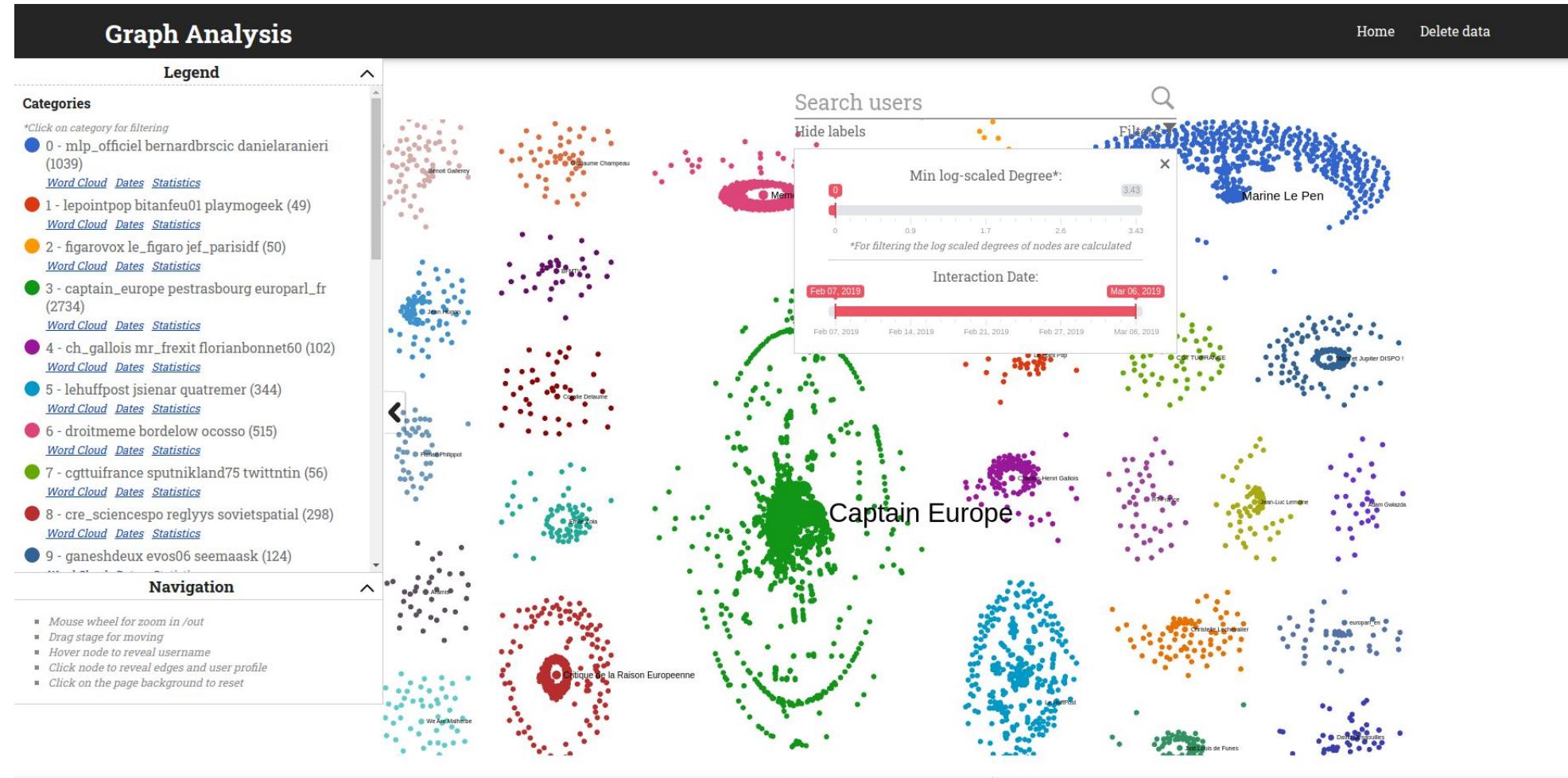
Take advantage of these days of confinement to enjoy the pleasure of reading with 2 months free from Amazon Kindle Unlimited <https://amzn.to/33VO1ds>

Hide original · Rate this translation



Credit: Zlatina Marinova (Ontotext)





Credit: Zlatina Marinova (Ontotext)





# BLOCKCHAIN DATABASE OF KNOWN FAKE

inews24.it  
24 marzo alle ore 10:12

ULTIM'ORA - Dottoressa e OSS aggredite in Pronto Soccorso - GUARDATE COSA FA QUESTO UOMO !!!!

Condividi per Denunciare

1,4 min visualizzazioni

Mi piace Commenta Condividi

5,6 mila Commenti più in vista

26.440 condivisioni 3,1 mila commenti

# ≡ EL PAÍS

## La verdad detrás del bulo sobre la agresión de un musulmán en un centro médico

La historia, difundida en Facebook, fue protagonizada por un hombre ebrio y ocurrió en R



EL PAÍS G+  
Madrid - 26 MAR 2017 - 16:43 CEST



La supuesta historia de un supuesto musulmán que agredió a un médico en un centro de salud español ha sobrepasado los tres millones de visitas en Facebook. Pero solo la mitad del relato es verdadero: Es cierto que hubo una agresión en un centro de salud pero el protagonista era un ruso en estado de embriaguez y ocurrió en la localidad rusa de Nóvgorod.

En las imágenes, que Juan Manuel González Sosa publicó en su cuenta de Facebook el pasado 25 de marzo, se aprecia cómo un hombre zarandeá y golpea a una persona vestida con una bata blanca. Segundos después aparece una

WHAT METHODOLOGY AND PRINCIPLES TEAM NOTICE CONTACT

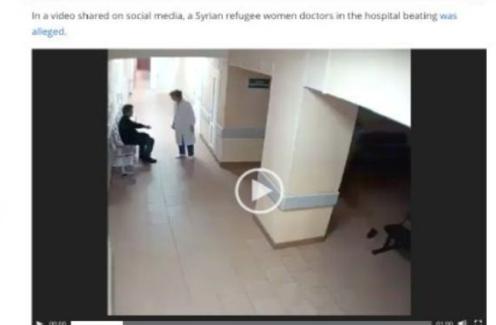


Home page Polítika History Education Science Health Urban Legends

## Syrians refugee allegedly beat a doctor from Russia shared video

12/09/2017 • 12:39

CLAIM / Video: Syrian refugee beat female doctor in a hospital.  
FALSE



Credit: Denis Teyssou (AFP)



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# BLOCKCHAIN DATABASE OF KNOWN FAKES



Dashboard Search Similarity Search

Login

## Dashboard

Welcome to WeVerify

WeVerify / Dashboard

19718

Debunks

01 November

19790

Reviews

01 November

195651

Evidences

01 November

36412

Appearances

01 November

2,000

1,500

1,000

500

0

2020-08-03 2020-08-06 2020-08-09 2020-08-12 2020-08-15 2020-08-18 2020-08-21 2020-08-24 2020-08-27 2020-08-30 2020-09-02 2020-09-05 2020-09-08 2020-09-11 2020-09-14 2020-09-17



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# BLOCKCHAIN DATABASE OF KNOWN FAKES



WeVerify Dashboard Search Similarity Search Login

Search Search for Debunks by filters and/or keyword

Home WeVerify / Dashboard / Search

Filters Reset

Date 01/01/2000 01/01/2020 Filter

Author All Authors

Organization All Organizations

Language All Languages

Has Appearance All

Has Review All

Search... Search Result For: AUTHOR: ALL AUTHORS ORGANIZATION: AFP LANGUAGE: EN About : 28 Debunks Order By: Date

DEBUNK 52 days ago Overview

A video has been viewed tens of thousands of times on Facebook, Weibo and YouTube alongside a claim it shows a freight train operating between China and the UK under China's economic development plan, the Belt and Road Initiative. However, the video has been shared in a misleading context; it actually shows a freight train that operates in the US and Canada.

• AFP Hong Kong

DEBUNK 52 days ago Overview

A post shared tens of thousands of times on Facebook claims that Walmart stores have stopped accepting cash payments, and that if the stores refuse to accept cash then legally the "debt" is considered paid. Despite some retailers encouraging cashless payments during the COVID-19 pandemic, both claims are false according to Walmart Canada and the Bank of Canada.

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# BLOCKCHAIN DATABASE OF KNOWN FALES



Dashboard Search Similarity Search

Log in

## Debunk

Social media posts claim that US House of Representatives Speaker Nancy Pelosi w...

WeVerify / Dashboard / Search Results / Social media posts c...

## Appearances

01/11/2020, 18:11 PM



04/09/2020, 14:09 PM



AFP USA

External URL: [https://www.instagram.com/p/CEcljMeAI/?utm\\_source=ig\\_embed](https://www.instagram.com/p/CEcljMeAI/?utm_source=ig_embed)

04/09/2020, 14:09 PM



AFP USA

External URL: <https://www.facebook.com/teddie.miller.7/posts/10224468008790945>

## Reviews

01/11/2020, 18:11 PM



04/09/2020, 22:09 PM



AFP USA

See Evidences

"Pelosi said if President Trump wins she will resign," claims a short message published by dozens of Facebook users in August 2020. Identical posts featuring the same claim and a portion of The Lord's P... [Read more](#)

External URL: <https://factcheck.afp.com/pelosi-did-not-say-she-will-quit-if-trump-wins-november>



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# BLOCKCHAIN DATABASE OF KNOWN FALES



Dashboard Search Similarity Search

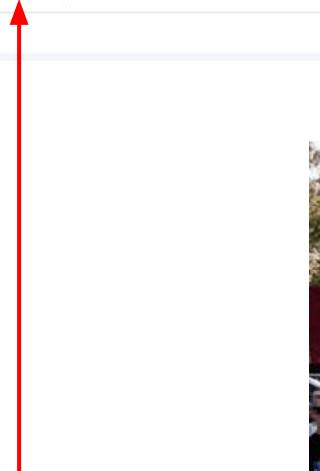
Login

## Similarity Search

Search for Debunks by similar images

[WeVerify](#) / [Dashboard](#) / [Similarity Search](#)

<https://antifascistnetwork.files.wordpress.com/2013/08/free-all-antifa-prisoners1.jpg>



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## Debunk

Image Claims To Show Antifa Activists Holding An 'Antifa Against Bikers' Banner

Home WeVerify / Dashboard / Search Results / Image Claims To Show...

## Appearances

01/11/2020, 18:11 PM



15/06/2020, 06:06 AM



Trevor Schakohl

External URL: <https://www.facebook.com/photo.php?fbid=3111801752191685&set=a.1281020645269814&type=3&theater>

## Reviews

01/11/2020, 18:11 PM



22/06/2020, 12:06 PM



Trevor Schakohl

See Evidences

An image shared on Facebook allegedly shows antifa activists holding a banner that reads "Antifa Against Bikers."

Verdict: False

The image has been digitally altered. The original banner actually has the words "Free All Antifa Prisoners" on it.

Fact Check:

False rumors have recently circulated online that members of the Hells Angels and Mongols motorcycle clubs were traveling together to Seattle to confront antifa, short for anti-fascist, activists.

The image being shared appears to reference that debunked claim, showing a crowd of people in front of what appears to be a stage. Some people in the front of the photo hold a banner, purportedly bearing the words "Antifa Against Bikers."

"This is a fight they don't want to start," the accompanying post reads.  
"One they won't win." (RELATED: Video Claims To Show Hells Angels And Mongols Bikers Riding To Seattle To Fight Antifa Activists)

However, the image appears to have been digitally manipulated to





# BLOCKCHAIN DATABASE OF KNOWN FALES



WeVerify

Dashboard Search Similarity Search

Debunk

Image Claims To Show Antifa Activists Holding An 'Antifa Against Bikers' Banner

## Appearances

01/11/2020, 18:11 PM



15/06/2020, 06:06 AM



Trevor Schakohl

External URL: <https://et-a.l2810206452698>



An image [shared on Facebook](#) allegedly shows antifa activists holding a banner that reads "Antifa Against Bikers."



This is a fight they don't want to start. One they won't win.

1 like 7 comments 7 shares

### Verdict: False

The image has been digitally altered. The original banner actually has the words "Free All Antifa Prisoners" on it.

Login

Dashboard / Search Results / Image Claims To Show...

See Evidences

on Facebook allegedly shows antifa activists holding a "Antifa Against Bikers."

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recently circulated online that members of the Hells Angels motorcycle clubs were traveling together to : antifa, short for anti-fascist, activists.

shared appears to reference that debunked claim, of people in front of what appears to be a stage. Some of the photo hold a banner, purportedly bearing the nst Bikers."

"They don't want to start," the accompanying post reads.

in." (RELATED: Video Claims To Show Hells Angels Riding To Seattle To Fight Antifa Activists)

ge appears to have been digitally manipulated to





## Results

### Tweet

**Emmanuel Macron**

@EmmanuelMacron

Our house is burning. Literally. The Amazon rain forest - the lungs which produces 20% of our planet's oxygen - is on fire. It is an international crisis. Members of the G7 Summit, let's discuss this emergency first order in two days!

#ActForTheAmazon



161K 7:15 PM - Aug 22, 2019

89.4K people are talking about this

**Veracity of tweet**

False Unverified True

You must be logged in to provide feedback.

### User profile



User  
User verified  
Location  
Profile Description  
Account Created  
Account Age (days)  
Followers  
Friends  
Number of tweets  
Average tweet per day

Emmanuel Macron (EmmanuelMacron)  
Verified  
France  
Président de la République française.  
20/10/2013 19:35:28  
2209 days  
4274218  
712  
8538  
3.865

<https://tweetveracity.gate.ac.uk/>

### External Links

#### In Tweet

[https://pbs.twimg.com/media/ECmM\\_hbXsAEq21w.jpg](https://pbs.twimg.com/media/ECmM_hbXsAEq21w.jpg)

#### In Replies

<https://earthobservatory.nasa.gov/images/145464fires-in-brazil>

<https://www.alamy.com/stock-photo-amazon-rain-forest-afire-30695050.html>

<https://pbs.twimg.com/media/ECs9BXAVUEFLV3.png>

[https://pbs.twimg.com/media/ECs9BXUUEAKyW\\_.png](https://pbs.twimg.com/media/ECs9BXUUEAKyW_.png)

<https://pbs.twimg.com/media/ECs53EwWwAA840e.jpg>





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# VERACITY AND STANCE ANALYSIS OF ONLINE CONVERSATIONS



**Caneta Desesquerdizadora**  
@Desesquerdizada

Replies to @EmmanuelMacron  
**FAKE NEWS.**

1. This picture was taken by Loren McIntyre, an American photojournalist that DIED IN 2003. It's for sale here:  
[alamy.com/stock-photo-am...](http://alamy.com/stock-photo-am...)
2. The real lungs of the World are algae. Up to 70% of Earth's oxygen is produced by them.



**Stock Photo - Amazon rain forest afire**  
Download this stock image: Amazon rain forest afire. - BNX7RP from Alamy's library of millions of high resolution stock photos, illustrations  
[alamy.com](http://alamy.com)

16.3K 10:52 PM - Aug 22, 2019

3,380 people are talking about this

denied 0 0 0 0 0 0

**Ana Paula Henkel** @AnaPaulaVolei

Replies to @EmmanuelMacron

Mr Macron, the Amazon does not produce 20% of the planet's oxygen. Secondly, the photo you used is very old from years ago, that's called 'fake news' these days and does NOT help the Amazon. Last but not least, you have an approval rating of 22% in France, fix your house first.



1,521 people are talking about this

denied 0 0 0 0 0 0

**Kevin Todd** @KevinTo95845970

Replies to @Adele47018578 and 2 others

Happy Sunday Adele         

1 11:10 AM - Aug 25, 2019

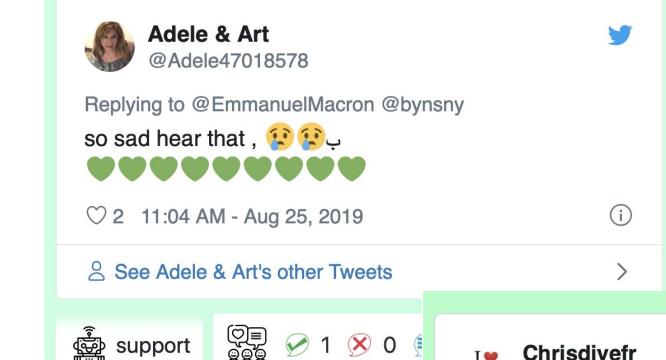
See Kevin Todd's other Tweets

comment 0 0 1 2 0 0

**Adele & Art** @Adele47018578

Replies to @EmmanuelMacron @bynsny

so sad hear that,   



support 1 0 0

**Chrisdivefr** @chrisdivefr

Replies to @YesThatJack @EmmanuelMacron

We are. [economist.com/europe/2019/07...](http://economist.com/europe/2019/07...)



**Why France's forests are getting bigger**  
Between 1990 and 2015, EU countries reforested an area the size of Portugal  
[economist.com](http://economist.com)

366 8:24 PM - Aug 22, 2019

64 people are talking about this

support 0 0 0 0 0 0



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## IMAGE/MEME OCR

### Output

EQUALIZATION REFORM COULD SAVE ALBERTA  
EACH YEAR FOR  
JOBS, TAX CUTS, HEALTHCARE &  
EDUCATION FUNDING  
BUT & WANT TO SPEND OUR MONEY TO  
BUY VOTES IN QUEBEC  
THE ONLY PARTY THAT WILL  
REFORM EQUALIZATION  
[www.peoplespartyofcanada.ca](http://www.peoplespartyofcanada.ca)

### Source

Uploaded file: EGk5SMlu4AAaiKg.jpg

Original image:



**PPC** THE ONLY PARTY THAT WILL  
REFORM EQUALIZATION  
PEOPLE'S PARTY OF CANADA  
**STRONG & FREE** [www.peoplespartyofcanada.ca](http://www.peoplespartyofcanada.ca)



<http://demos.gate.ac.uk/weverify/ocr/>

Preprocessed image:



WeVerify projec



➤ Classification of misinformation into **10 different categories** (Brennen et al., 2020):

- Public authority
- Community spread and impact
- Medical advice, self-treatments and virus effects
- Prominent actors
- Conspiracy theory
- Virus transmission
- Virus origins and properties
- Public preparedness
- Vaccines, medical treatment, and tests
- Cannot determine

Scott Brennen, Felix Simon, Philip Howard, and Rasmus Kleis Nielsen. 2020. Types, sources, and claims of covid-19 misinformation. Technical report, Reuters Institute





## ➤ IFCN dataset:

- Claim → rephrased by a fact-checker
- Explanation → why a claim is false
- Source link → page of the debunk
- Date → of publication in the IFCN Poynter website
- Type of media
- Original website

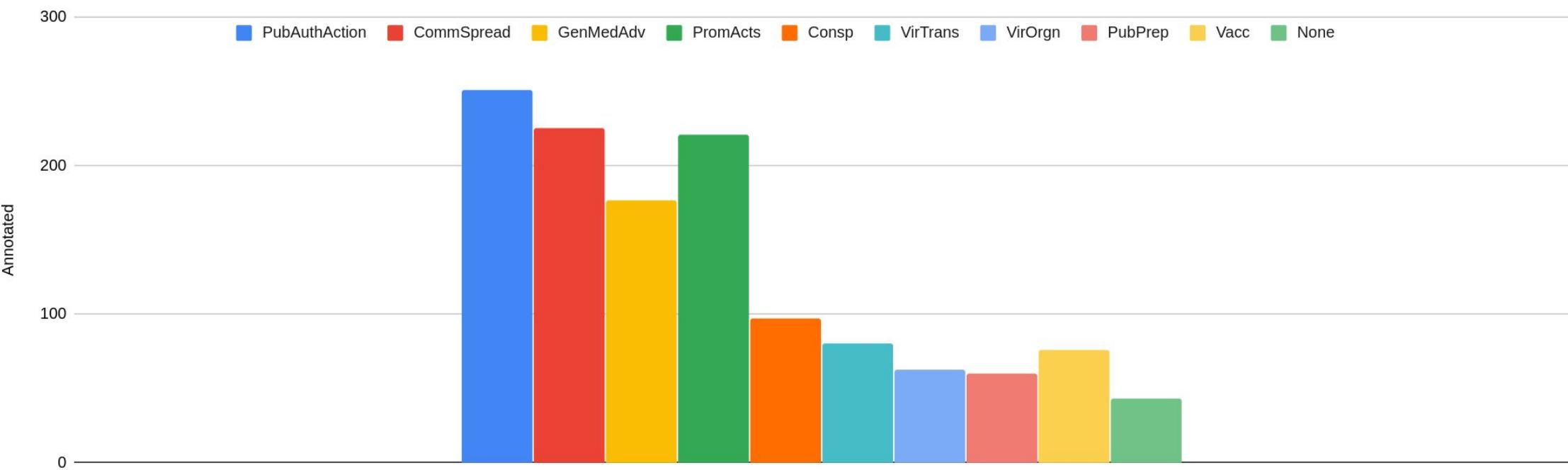
<https://www.poynter.org/ifcn-covid-19-misinformation/>





## ➤ Data annotation:

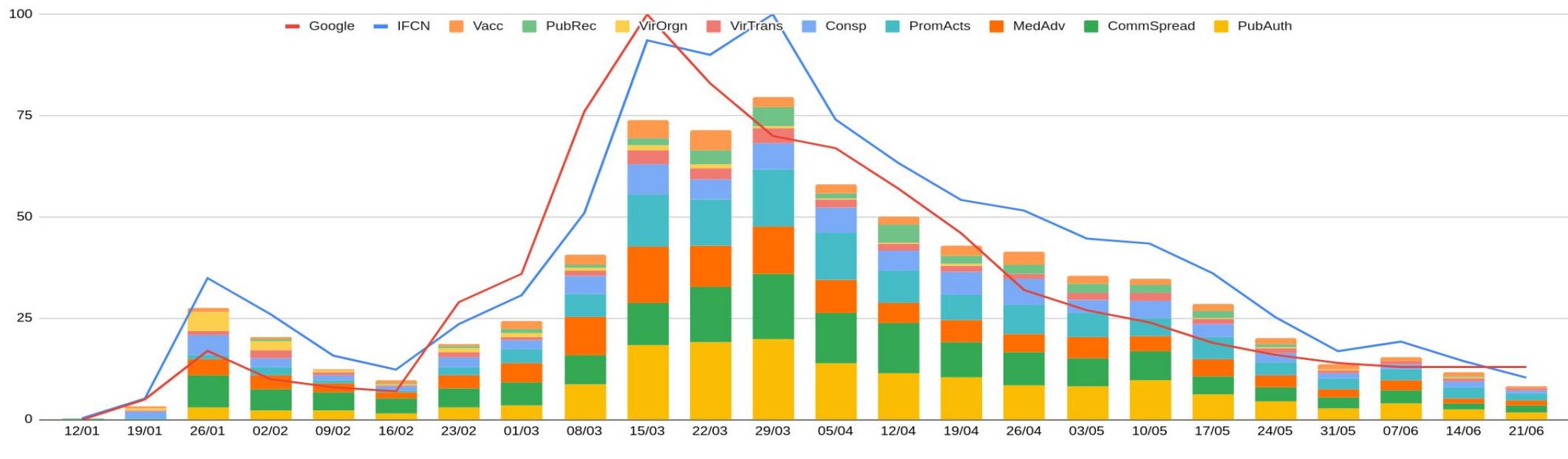
- 27 volunteers (**English claims only**)
- Assign most relevant class + a confidence score
- After removing low quality annotations → 1,293 debunks annotated (**Cohen's  $k= 0.70$** )



Credit: Xingyi Song (Sheffield)



- Large-scale analysis:
- Start with **Conspiracy theories**
  - Then **Community spread** and **Virus origin** in mid February
  - **Public authority action** dominate in March
  - **Community Spread** and **Prominent actors** are top topics in the later period



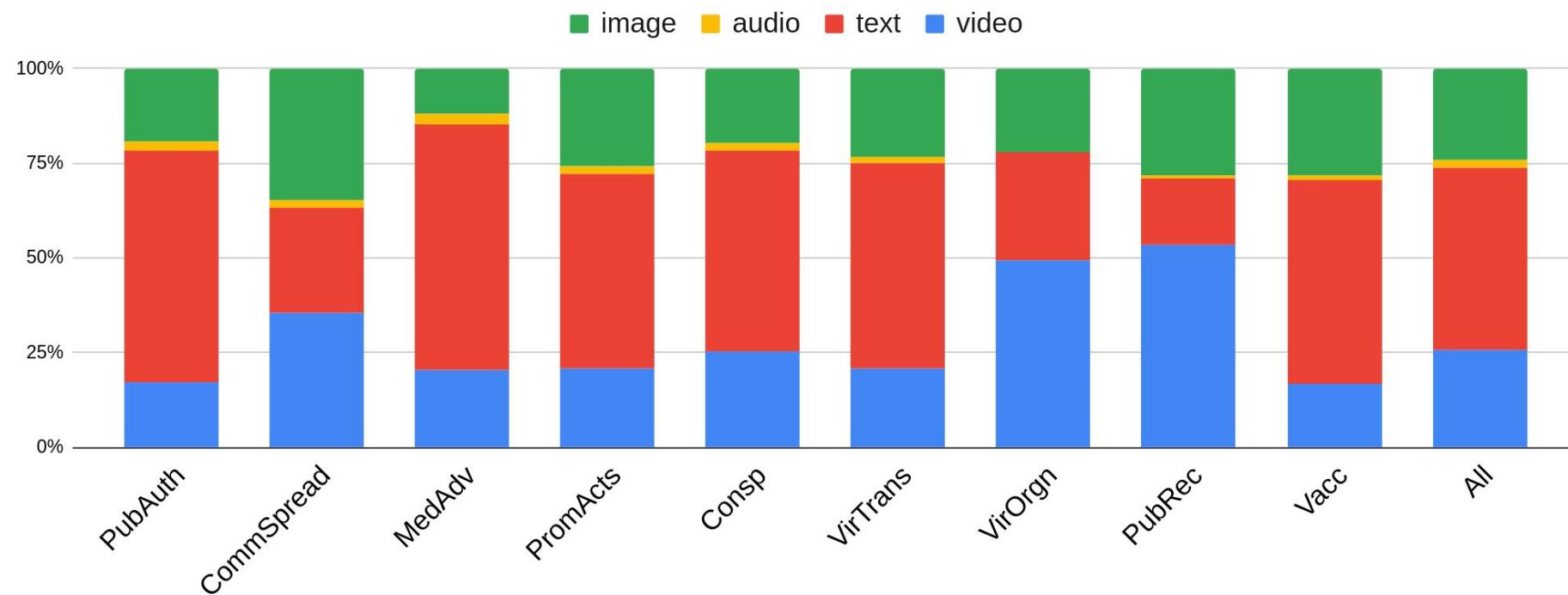
Credit: Xingyi Song (Sheffield)



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- Large-scale analysis:
  - 50% text
  - ~ 50% of Virus origin and Public preparedness → videos

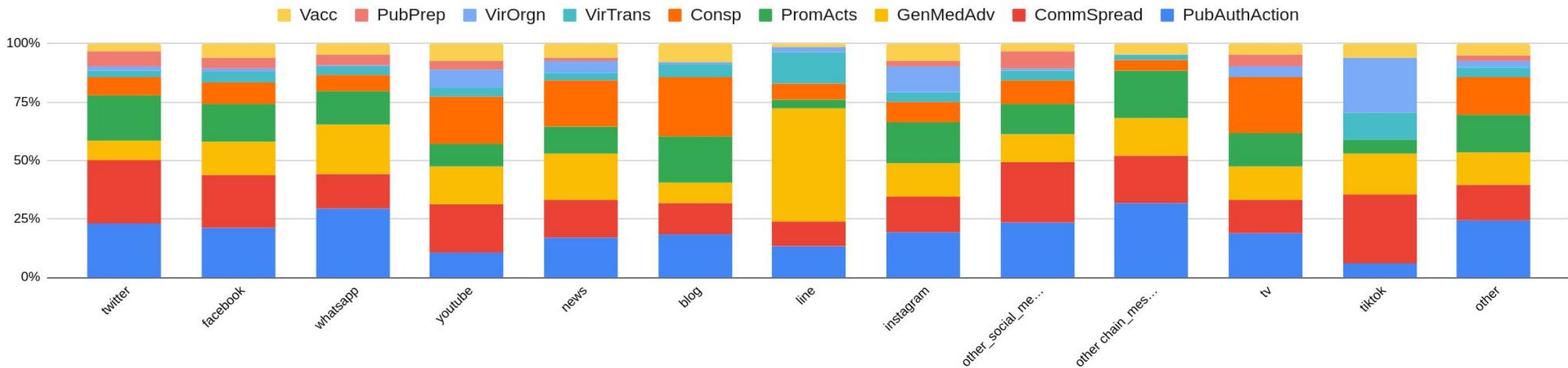


Credit: Xingyi Song (Sheffield)



➤ Large-scale analysis:

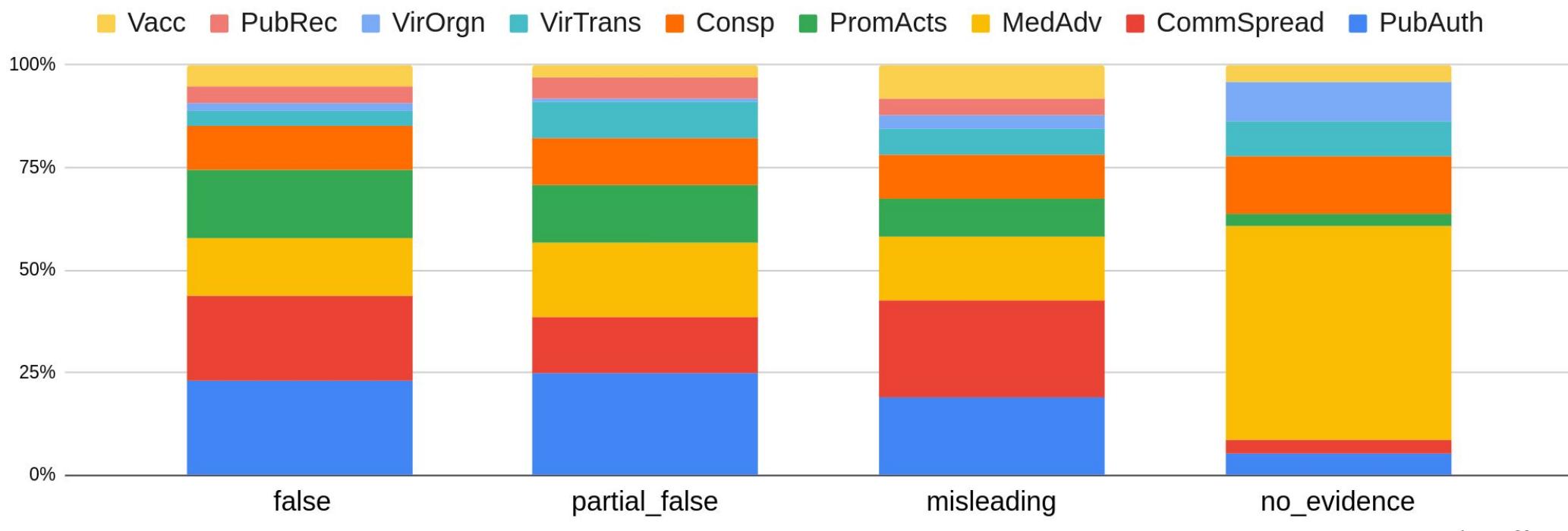
- Most spread in **social media** → Public Authority action and Community spread
- **Instagram and Tiktok** → Virus origin
- **News, Youtube, Blog and TV** → Conspiracy theory
- **Messages apps** → General medical advise



Credit: Xingyi Song (Sheffield)



- Large-scale analysis:
- **Community spread** → highest in misleading claims
  - ~ 50% of No evidence → **General advise**



Credit: Xingyi Song (Sheffield)



# ONGOING AND FUTURE WORK





# COVID-19 SOCIAL MEDIA ANALYSIS



- Matching debunks (IFCN dataset) with tweets → finding misinformation

"[The coronavirus is] 'new' yet it was lab-created and patented in 2015"

**Assessment of Ciliary Activity**

Day	Sample	Activity Level (approx.)
Day 4	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100
Day 5	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100
Day 7	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100
Day 1	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100
Day 2	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100
Day 5	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100
Day 6	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100
Day 7	1000x	100
	1000x-1.27	100
	1000x-1.27/20ng	100
	1000x-1.27/20ng/1.25	100
	1000x-1.27/20ng/1.25/20ng	100

	Bilderberg - Deep State #KBF #OurMovement	!	!	!
@5Agenda21				
Replies to @5Agenda21				
<b>@Charlotte3003G</b>				
#Coronavirus was patented in 2017 (application 2015) by the Pirbright Institute, Surrey England.				
The Pirbright Institute is funded by the Bill Gates Foundation				
 US 20170216427A1				
<b>(19) United States</b> <b>(12) Patent Application Publication</b> <b>(10) Pub. No.: US 2017/0216427 A1</b> Bickerton et al. <b>(43) Pub. Date:</b> Aug. 3, 2017				
<b>(54) CORONAVIRUS</b>				
<b>(71) Applicant:</b> THE PIRBRIGHT INSTITUTE, Pirbright, Woking (GB)				
<b>(72) Inventors:</b> Erica Bickerton, Pirbright, Woking (GB); Sarah Kepp, Pirbright, Woking (GB); Paul Britton, Pirbright, Woking (GB)				
<b>(21) Appl. No.:</b> 15/328,179 <b>(22) PCT Filed:</b> Jul. 23, 2015 <b>(86) PCT No.:</b> PCT/GB2015/052124 § 371 (e)(3), (2) Date: Jun. 23, 2017				
<b>(30) Foreign Application Priority Data</b>				
Jul. 23, 2014 (GB) ..... 1413020.7				
<b>Publication Classification</b>				
<b>(51) Int. Cl.</b>				
A61K 39/215 (2006.01); C12N 9/12 (2006.01); C12N 7/00 (2006.01)				
<b>(52) U.S. CL.</b>				
CPC ..... A61K 39/215 (2013.01); C12N 7/00 (2013.01); C12N 9/127 (2013.01); C12Y 207/0704B (2013.01); C12N 2770/2002 (2013.01); C12N 2770/2003 (2013.01); C12N 2770/2006 (2013.01); A61K 209/5254 (2013.01)				
<b>(57) ABSTRACT</b>				
The present invention provides a live, attenuated coronavirus comprising a variant replicase gene encoding polyproteins comprising a mutation in one or more of non-structural protein(s) (nsp)-10, nsp-14, nsp-15 or nsp-16. The coronavirus may be used as a vaccine for treating and/or preventing a disease, such as infectious bronchitis, in a subject.				

[https://www.poynter.org/?ifcn\\_misinformation=the-coronavirus-is-new-yet-it-was-lab-created-and-patented-in-2015](https://www.poynter.org/?ifcn_misinformation=the-coronavirus-is-new-yet-it-was-lab-created-and-patented-in-2015)





- Matching debunks (IFCN dataset) with tweets → finding debunks

"An alkaline diet could prevent COVID-19"



Fact Check: Alkaline Diet Does NOT Prevent You From Getting Coronavirus [ift.tt/2ymWV7Y](https://ift.tt/2ymWV7Y)  
#CoronaVirusFacts #DatosCoronaVirus

This is to inform us all that the pH for corona virus varies from 5.5 to 8.5.  
RESEARCH: JOURNAL OF VIROLOGY & IMMUNOLOGY

False

LEAD STORIES Read all about the latest hoaxes, fake news and pranks gone viral on [leadstories.com](https://leadstories.com)

Fact Check: Alkaline Diet Does NOT Prevent You From Getting Coronavirus [...] Does eating an alkaline diet prevent you from getting infected with the novel coronavirus? No, that's not true: This claim...  
[leadstories.com](https://leadstories.com)

9:50 PM · Apr 2, 2020 · IFTTT

[https://www.poynter.org/?ifcn\\_misinformation=alkaline-diet-could-prevent-covid-19](https://www.poynter.org/?ifcn_misinformation=alkaline-diet-could-prevent-covid-19)





**InVID**  
In video veritas

TOOLS TUTORIAL CLASSROOM INTERACTIVE FACT CHECK ABOUT ASSISTANT

WeVerify

### Media to Process

[https://reveal-mklab.iti.gr/forensics\\_demo/AllocationsFamiliales.jpg](https://reveal-mklab.iti.gr/forensics_demo/AllocationsFamiliales.jpg)



The magnifier tool can be used to examine the image thoroughly

MAGNIFIER

The metadata tool can be used to retrieve image/video metadata

METADATA

The forensic tool can be used to detect any image manipulation

FORENSIC



Feedback





# MULTILINGUAL MISINFORMATION ANALYSIS

Italian (25/03)

Matteo Salvini  @matteosalvinimi - Mar 25

● !! INCREDIBILE!!! ●

Da Tgr Leonardo (Rai Tre) del 16.11.2015 servizio su un supervirus polmonare Coronavirus creato dai cinesi con pipistrelli e topi, pericolosissimo per l'uomo (con annesse preoccupazioni). (1/2)

**PAZZESCO!**



2015, I CINESI CREANO SUPERCORONAVIRUS CON PIPISTRELLI E TOPI!!!

1:49 356.1K views

4.5K 3.3K 5.3K

English (26/03)

Luca  @Luca666Luca

@realDonaldTrump are you aware in 2015 Italian national TV released a news about Chinese experiment, trying to inject bat protein into SARS in Wuhan bio-laboratory. I am a liberal dont like you but if true China must pay. Check vdo a 4:58 min



Rai Play

TGR Leonardo del 16/11/2015 

5:27 AM - Mar 26, 2020 - Twitter Web App

Spanish (31/03)

Tito  @Tito9k9

Miren esto!!!

La RAI en 2015 advertía que los chinos estaban creando el COVID-19 un virus que se aloja en murciélagos y se puede transmitir al hombre.

INTERECONOMÍA habla sobre el vídeo de la RAI de 2015

Translate Tweet



INTERECONOMÍA habla sobre el vídeo de la RAI de 2015  
La Redacción Abierta de "El Toro TV" (Intereconomía) habla sobre el vídeo de la RAI de 2015 que avisó sobre que los ...  
 youtube.com

11:23 PM - Mar 31, 2020 - Twitter Web App

2 Retweets 2 Likes

Portuguese (04/04)

Thiago  @Thiago51669072

Replying to @MateusS54629641 and @Miltonneves

Assiste esse vídeo

É um documentário que passou na TV Rai (Itália) em 2015 fala q foi modificado em laboratório

Não dá pra dizer q se é o mesmo e se foi lançado intencionalmente, mas q a China modificou sim

Translate Tweet



Coronavirus RAI Leonardo 2015 English subtitle. Chinese ex...  
This is a broadcast from the public Italian television 2015 about a super corona virus. CORONAVIRUS ITALIAN TV 201...  
 youtube.com

11:43 PM - Apr 4, 2020 - Twitter Web App





## TwitIE Named Entity Recognizer for Tweets



Named entity recognition service for Twitter data. Identifies person, location, organization etc. and also performs normalization of abbreviations and common shorthands ("brb", "gr8", "2day", etc.).

1,200 free requests / day  
Larger batches £0.80 / CPU hour

## Twitter Collector



Collect tweets, view tweet statistics, and store results in your dashboard for further analysis.

£0.05 / CPU hour

## French Tweet Tokenizer



Identifies words and punctuation in French tweets

1,200 free requests / day  
Larger batches £0.80 / CPU hour

## German Tweet Tokenizer



Identifies words and punctuation in German tweets

1,200 free requests / day  
Larger batches £0.80 / CPU hour

## Hyperpartisan scorer



Estimates the probability that a document could be classed as "hyperpartisan".

600 free requests / day  
Larger batches £0.80 / CPU hour

## Source Credibility



Annotates URLs to highlight the credibility of the source at which they ultimately point.

1,200 free requests / day  
Batch processing not available

## Tweet Stance Classification



Classifies a reply to a tweet based on its stance (support, deny, query, or comment) to the original

1,200 free requests / day  
Larger batches £0.80 / CPU hour

## COVID-19 Misinformation Categoriser



Assigns COVID-19 misinformation to one of several categories, including government actions, impact on community, medical advice, conspiracy theories, vaccine, etc.

600 free requests / day  
Larger batches £0.80 / CPU hour

## English Tweet Tokenizer



Identifies words and punctuation in tweets

1,200 free requests / day  
Larger batches £0.80 / CPU hour

## Rumour veracity classifier



Classifies tweets based on whether the claims they make are true, false or unverifiable.

1,200 free requests / day  
Larger batches £0.80 / CPU hour

## WeVerify OCR Service



This pipeline identifies URLs in the input text and tries to process them with optical character recognition to identify text in images.

1,200 free requests / day  
Batch processing not available



THANK YOU FOR YOUR ATTENTION!



[www.weverify.eu](http://www.weverify.eu)

@WeVerify

ontotext



Deutsche  
Welle



CERTH  
CENTRE FOR  
RESEARCH & TECHNOLOGY  
HELLENIC

EU DISINFO LAB



WeVerify project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825297