

Say something interesting
about me

Gabriele Zanoni

@infoshaker

Who's Who

Gabriele Zanoni
@infoshaker

Cloud Security

Penetration testing

Incident Response

Anti-Fraud

Computer Forensics

Mobile Security

Let's start
from your
identity: a
true story.



Chloe is an investigative journalist working for an international broadcast service; we will call the TV show she works for The Inquirer.



Upon arriving in the country [West Africa] Chloe buys a local SIM card. She will be using this to communicate with her sources.



She makes phone calls to her sources telling them clearly who she is, who she works for and what she is trying to achieve.



One day, Chloe needs to meet with a source. She uses her local phone to order a cab from a cab company. Her number is shared with the driver, who calls her to confirm he has arrived. When she enters the cab, the driver greets her "So... you work for The Inquirer?"

What happened



The driver points at his phone. Her number is registered on the driver's phone as "Chloe The Inquirer Journalist."



What happened to Chloe is that one of her sources was using TrueCaller. She called her source and after they hung up, TrueCaller offered the source the option to tag Chloe's number, since the number was not in their database. The source did not see the potential for harm and tagged Chloe's number as "Chloe The Inquirer Journalist." Now every time Chloe makes a phone call using that phone number, her name appears to TrueCaller users, like the cab driver, as "Chloe The Inquirer Journalist."

Metadata analysis from phone calls 1/2

- An experiment from Jonathan Mayer
- “Participants run the **MetaPhone** app on their Android smartphone; it submits device logs and social network information for analysis.”
- “We began by identifying the MetaPhone participants’ contacts. We used the same approach as in our prior work on number identifiability, matching phone numbers against the public Yelp and Google Places directories. In total, our 546 participants contacted 33,688 unique numbers. 6,107 of those numbers (18%) resolved to an identity.”

Metadata analysis from phone calls 2/2

Category	Participants	Category	Participants with ≥ 1 Calls
Health Services	57%	Dentistry and Oral Health	18%
Financial Services	40%	Mental Health and Family Services	8%
Pharmacies	30%	Ophthalmology and Optometry	6%
Veterinary Services	18%	Sexual and Reproductive Health	6%
Legal Services	10%	Pediatrics	5%
Recruiting and Job Placement	10%	Orthopedics	4%
Religious Organizations	8%	Chiropractic Care	3%
Firearm Sales and Repair	7%	Rehabilitation and Physical Therapy	3%
Political Officeholders and Campaigns	4%	Medical Laboratories	2%
Adult Establishments	2%	Emergency or Urgent Care	2%
Marijuana Dispensaries	0.4%	Cardiology	2%
		Dermatology	1%
		Ear, Nose, and Throat	1%
		Neurology	1%
		Oncology	1%
		Substance Abuse	1%
		Cosmetic Surgery	1%

Metadata analysis from phone calls: Pattern Results

- “A pattern of calls will often, of course, reveal more than individual call records.”
 - Participant A communicated with multiple local neurology groups, a specialty pharmacy, a rare condition management service, and a hotline for a pharmaceutical used solely to treat relapsing multiple sclerosis.
 - Participant B spoke at length with cardiologists at a major medical center, talked briefly with a medical laboratory, received calls from a pharmacy, and placed short calls to a home reporting hotline for a medical device used to monitor cardiac arrhythmia.
 - Participant C made a number of calls to a firearm store that specializes in the AR semiautomatic rifle platform. They also spoke at length with customer service for a firearm manufacturer that produces an AR line.
 - In a span of three weeks, Participant D contacted a home improvement store, locksmiths, a hydroponics dealer, and a head shop.
 - Participant E had a long, early morning call with her sister. Two days later, she placed a series of calls to the local Planned Parenthood location. She placed brief additional calls two weeks later, and made a final call a month after.



We create the most realistic artificial voices in the world

- ✓ Personify your product by giving it a unique voice
- ✓ Create your own vocal avatar and use it wherever you want
- ✓ Integrate the vocal avatars of your users in your application

CREATE MY VOICE

Bonus topic:
deepfake
with your
data!

Who might have interest in such data?

Who might have interest in such data?

Do you want a bank loan?
...Or an insurance?

Never Give Stores Your ZIP Code!

«Users simply capture name from the credit card swipe and request a customer’s ZIP code during the transaction. GeoCapture matches the collected information to a comprehensive consumer database to return an address.” In a promotional brochure, they claim accuracy rates as high as 100%»



Adam Tanner Contributor

I write about the business of personal data.



Why do merchants sometimes ask us for our ZIP code when we buy something?



I recently visited the [Mob Museum](#) in Las Vegas, an interesting addition to Sin City’s attractions. I paid my admission with a credit card, prompting the museum ticket seller to ask me: “What’s your ZIP code?”



When I paused for a moment, she added: “It’s for marketing purposes.”



(AP Photo/Julie Jacobson)

0° — 10° — 20° — 30° — 40° — 50°

Nobody knows...together
we know!

		Centiles		
		Estimates in lbs.	Observed deviates from 1207 lbs.	Normal p.e = 37
	5	1074	- 133	- 90
	10	1109	- 98	- 70
	15	1126	- 81	- 57
	20	1148	- 59	- 46
<i>q</i> ₁	25	1162	- 45	- 37
	30	1174	- 33	- 29
	35	1181	- 26	- 21
	40	1188	- 19	- 14
	45	1197	- 10	- 7
<i>m</i>	50	1207	0	0
	55	1214	+ 7	+ 7
	60	1219	+ 12	+ 14
	65	1225	+ 18	+ 21
	70	1230	+ 23	+ 29
<i>q</i> ₃	75	1236	+ 29	+ 37
	80	1243	+ 36	+ 46
	85	1254	+ 47	+ 57
	90	1267	+ 52	+ 70
	95	1293	+ 86	+ 90

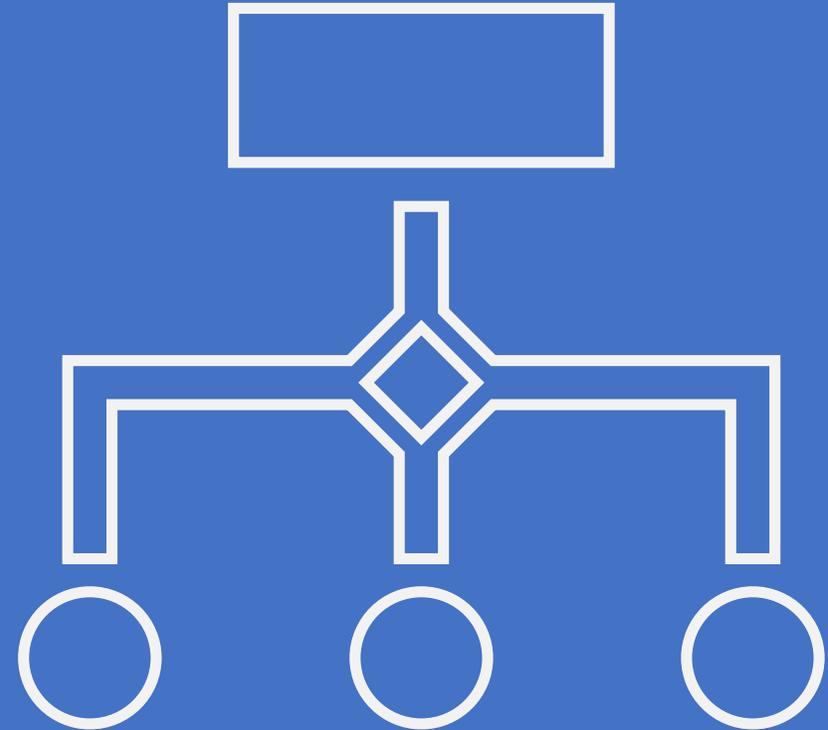
and third quartiles, stand at 25° and 75° respectively
middlemost value, stands at 50°.
proved to be 1198 lbs.

Is it just an idea (?)

- “For the past three years, Elaine Rich and 3,000 other average people have been quietly making probability estimates about everything from Venezuelan gas subsidies to North Korean politics as part of , an experiment put together by three well-known psychologists and some people inside the intelligence community.”
- “According to one report, the predictions made by the Good Judgment Project are often better even than intelligence analysts with access to classified information, and many of the people involved in the project have been astonished by its success at making accurate predictions.”

<http://www.npr.org/blogs/parallels/2014/04/02/297839429/-so-you-think-youre-smarter-than-a-cia-agent>

<http://www.goodjudgmentproject.com/>



Location determination techniques

Examples:

- WIFI related data can be used to determine your location. You only need to match MAC addresses with a map of known Access Points.
- Battery consumption can be used to identify your movements
- **It might be obvious but apps for taxi services/maps/health etc.. could have a history of your preferred places.**

<http://www.zdnet.com/article/how-google-and-everyone-else-gets-wi-fi-location-data/>

http://www.theregister.co.uk/2015/02/23/mobe_battery_stats_the_latest_tracking_trick_for_spies_creeps/

<http://www.ibtimes.com/spying-celebrities-nyc-taxi-metadata-exposes-celeb-locations-strip-club-clients-1696744?rel=rel1>

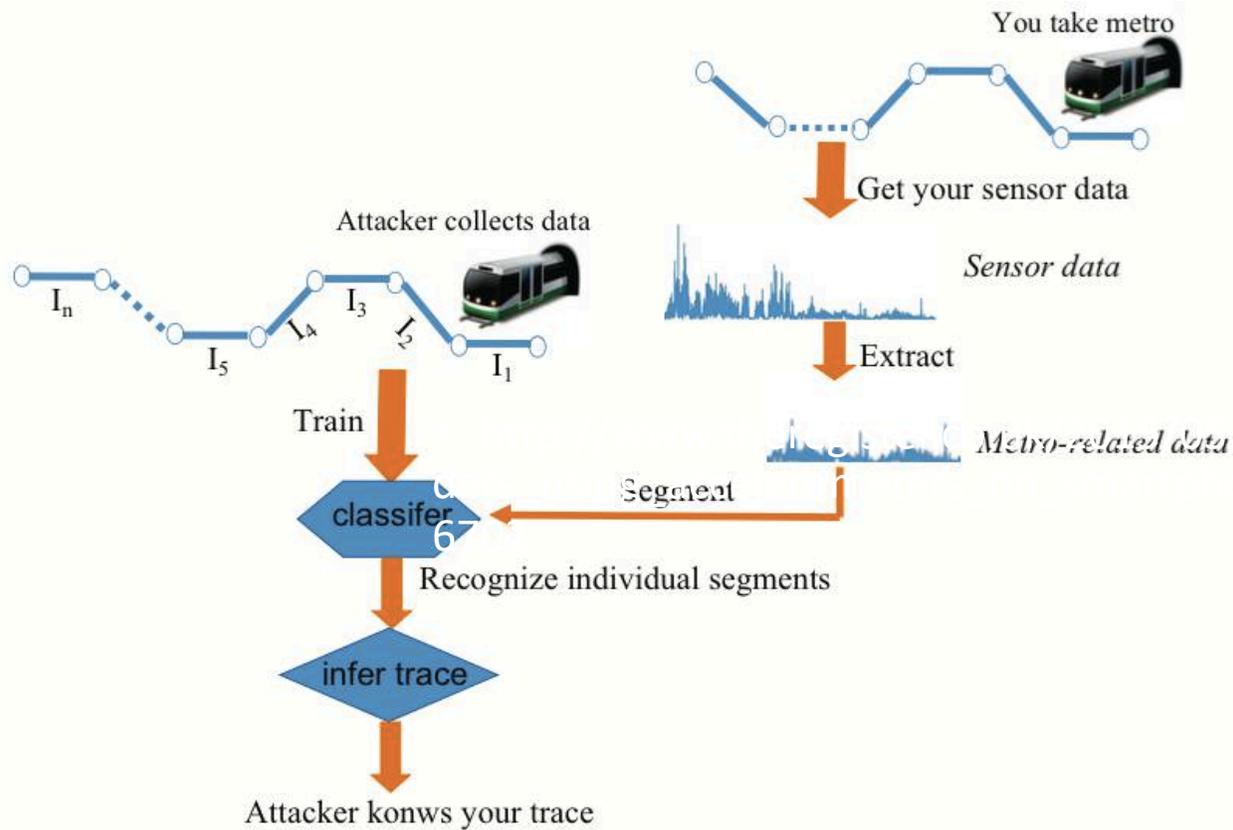


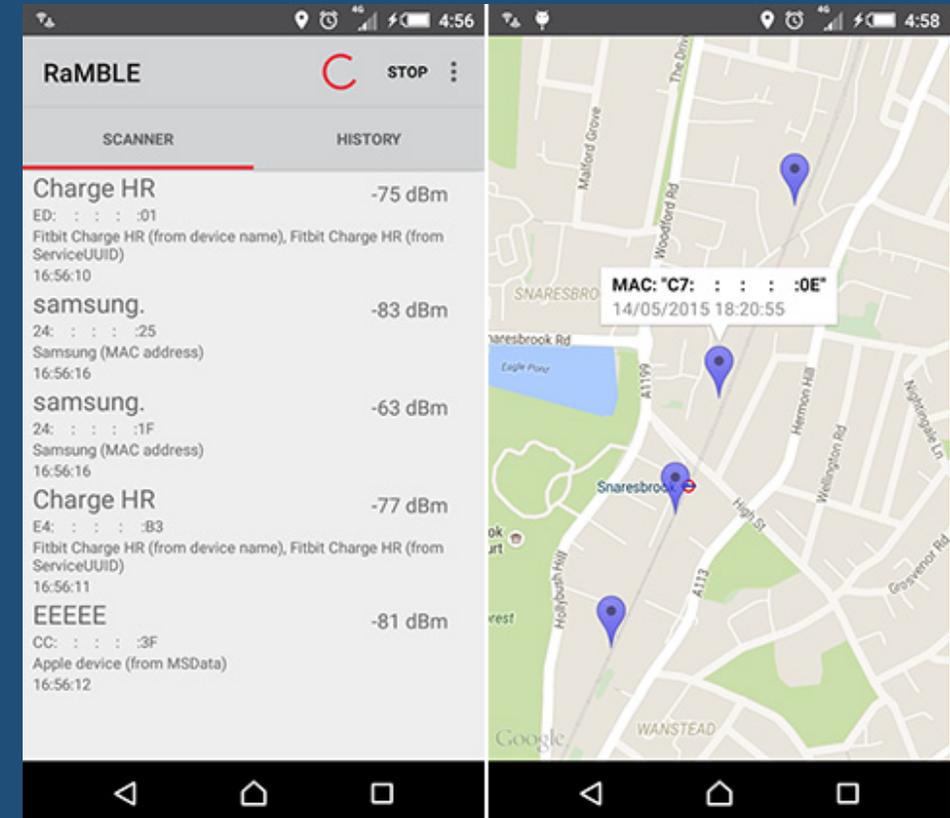
Figure 1: attack model

Tracking Metro Riders Using Accelerometers

metro_riders
146254517

Sniffing and tracking wearable tech and smartphones

- “Researchers at Context Information Security have demonstrated how easy it is to monitor and record Bluetooth Low Energy signals transmitted by many mobile phones, wearable devices and iBeacons, including the iPhone and leading fitness monitors, raising concerns about privacy and confidentiality.”



It's happening also here!

- <https://telesia.it/privacy>
- Il Dispositivo è costituito da un Single Board Computer dotato di adattatore di rete ethernet 802.3 e adattatore di rete WiFi 802.11(b/g/n) operante nella banda di frequenze dei 2.4 Ghz, è prodotto da terze parti, è normalmente in commercio e dispone delle certificazioni di legge.
- **Il Dispositivo è dotato di una serie di procedure informatiche che realizzano il conteggio anonimo di terminali, mobili e non, presenti nell'area circostante l'ubicazione del dispositivo stesso e dotati a loro volta di un adattatore di rete WiFi 802.11(b/g/n) operante nella banda di frequenze dei 2.4 Ghz.**



Telesia opera da oltre 20 anni nel settore della telematica multimediale, offrendo prodotti e servizi a tutte le aziende pubbliche e private che desiderano dotarsi di un sistema di audio-videocomunicazione.

La consolidata esperienza nel **digital broadcasting** ha permesso a Telesia di realizzare numerosi progetti integrati di videoinformazione per il pubblico, che attualmente sono operativi presso **tutti i principali aeroporti italiani**, le metropolitane di **Roma, Milano e Brescia**, a bordo degli **autobus di Milano** e dei **treni della metro di Roma**.



Strava app «leaking» military bases locations

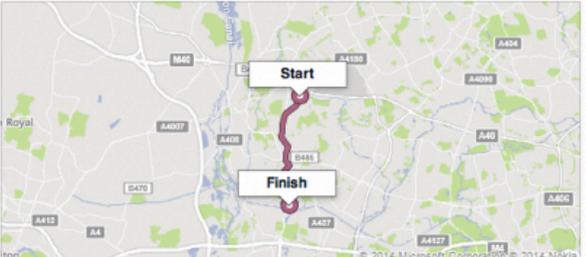
- **Security concerns have been raised after a fitness tracking firm showed the exercise routes of military personnel in bases around the world.**
- Online fitness tracker Strava has published a "heatmap" showing the paths its users log as they run or cycle.
- It appears to show the structure of foreign military bases in countries including Syria and Afghanistan as soldiers move around them.

<https://www.bbc.com/news/technology-42853072>

So where do you live?

biked 5.54 kilometers with Runtastic.com — 😊

August 5 · 🌐

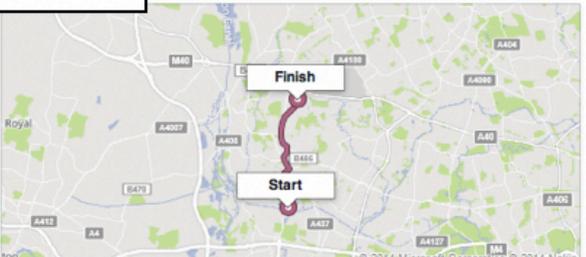


kilometers	minutes	km/hr	calories
5.54	21:07	15.73	139

Share

👍 Priyanka Taylor likes this.

biked 5.51 kilometers with Runtastic.com — 😊



kilometers	minutes	km/hr	calories
5.51	18:18	18.07	145

Share

https://www.google.it/maps/dir/51.5518671,-0.4490739/51.507782,-0.4495552/@51.5298531,-0.4886297,13z/data=!4m9!4m8!1m5!3m4!1m2!1d-0.4487049!2d51.55019

Norton - black diamonds Site is Safe

NortonInternetSecurityBF plugin has crashed. Learn More.

Long Ln, Uxbridge UB10 9JU, Regno Unito

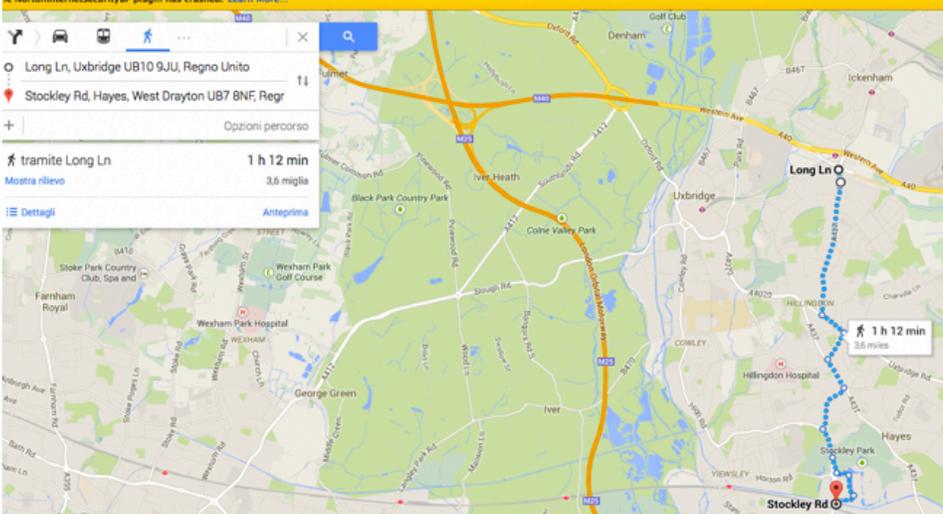
Stockley Rd, Hayes, West Drayton UB7 8NF, Regr

Opzioni percorso

tramite Long Ln 1 h 12 min

Mostra rilievo 3.6 miglia

Dettagli Antepima



The image shows a Google Maps interface with a cycling route highlighted in blue. The route starts at Long Ln, Uxbridge UB10 9JU, Regno Unito and ends at Stockley Rd, Hayes, West Drayton UB7 8NF, Regr. The estimated time for the route is 1 h 12 min, covering 3.6 miglia. Below the map, there is a street view image of a residential street with a black car parked on the side. The street name 'The Jungle' is visible on the road.

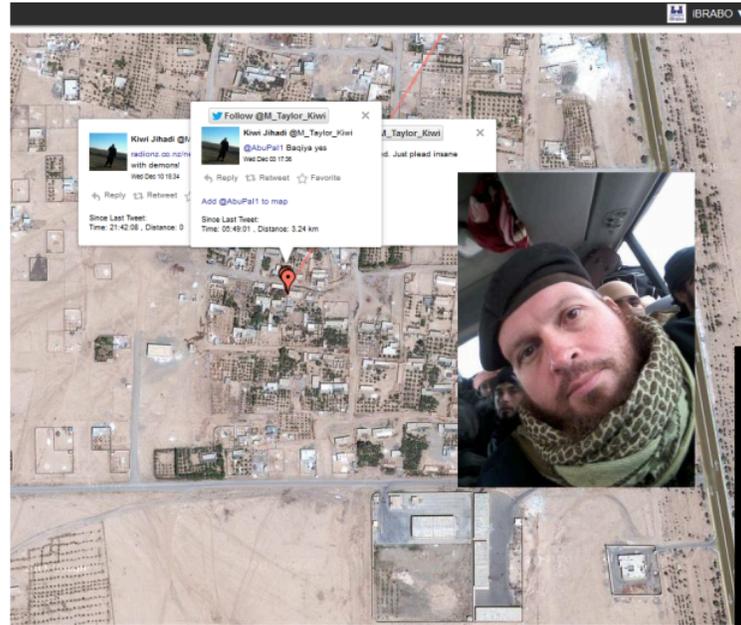
lot war it's just at the beginning

“DJI drones automatically tag GPS imagery and locations and register **facial recognition** data even when the system is off, and access users' phone data.

Additionally, the applications capture user information including email addresses, full names, phone numbers and other credentials. And, of course, **images and video captured by the drones are also collected and transmitted back to cloud-based servers operated by DJI in Taiwan, China, and Hong Kong**. DHS said that the Chinese government “most likely has access” to the data stored on those servers.

SIP Los Angeles assesses with high confidence a foreign government with access to this information could easily coordinate physical or cyber attacks against critical sites.

So you forgot to remove the geo-tag ?



NEW ZEALAND JIHADIST DELETES TWEETS AFTER DISCOVERING HE LEFT GEOTAGGING ON

- <https://ibrabo.wordpress.com/2014/12/30/new-zealand-jihadist-deletes-tweets-after-discovering-he-left-geotagging-on/>
- <http://wordondastreet.com/feds-use-instagram-arrest-350-drug-dealers-seize-7-million-one-weekend/>

Feds Use Instagram To Arrest Over 350 Drug Dealers & Seize \$7 Million In One Weekend?!

APRIL 05, 2014 WORD ON DA STREET 0 COMMENTS



SMH...these Idiots just never learn! The DEA used drug dealer's narcissistic need to post all their incriminating pictures on Instagram for "likes" to their advantage this weekend and made a record-breaking number of arrests and seizures. One drug dealer

was even dumb enough to brag about how police would never catch him, yet geotagged the exact location of his drug warehouse so that police were easily able to find him! Read the rest of this not-so-bright criminal's story below.....

The Federal Government has no problem using every tool at its disposal to catch criminals in action. After noticing an extremely large number of criminals using *Instagram* to show off their drugs, money, and expensive purchases, the Drug Enforcement Agency (DEA) teamed up with the Federal Bureau of Investigations (FBI) to set up sting operations to take down criminals.



Connecting dots...

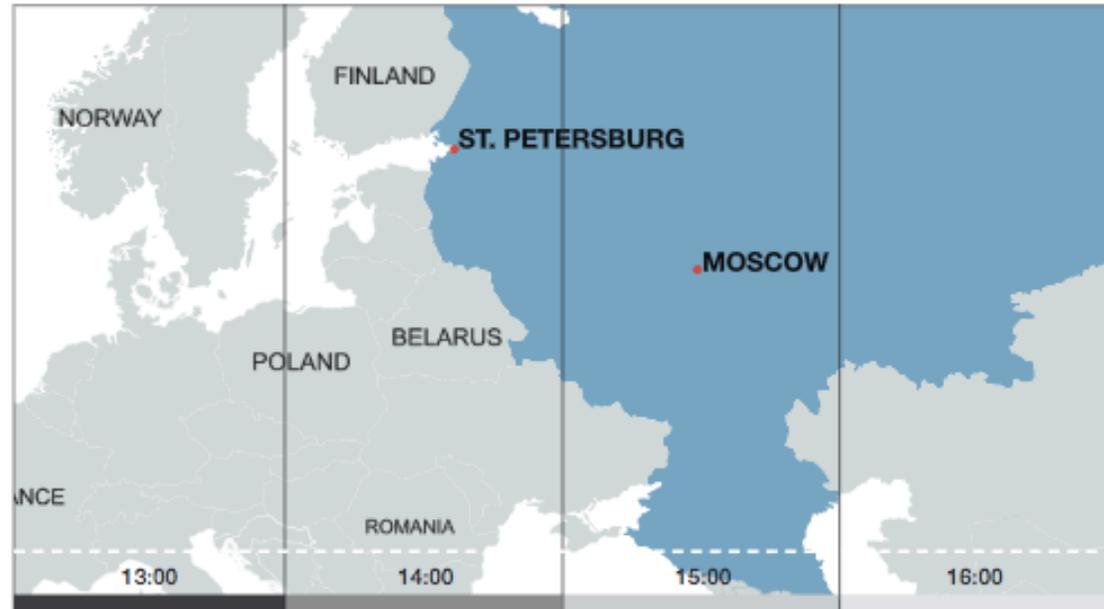
- This image, which was provided by an analyst who prefers not to be named publicly (but whose identity we have independently verified), shows an Uber receipt addressed to a user called 'Qiang' (强) and bears the e-mail address 420192[at]qq.com, an account that we believe to be used by APT10 actor Gao Qiang.

<https://intrusiontruth.wordpress.com/2018/08/15/apt10-was-managed-by-the-tianjin-bureau-of-the-chinese-ministry-of-state-security/>

Knowing the attackers: APT28

Compile Times Align with Working Hours in Moscow and St. Petersburg

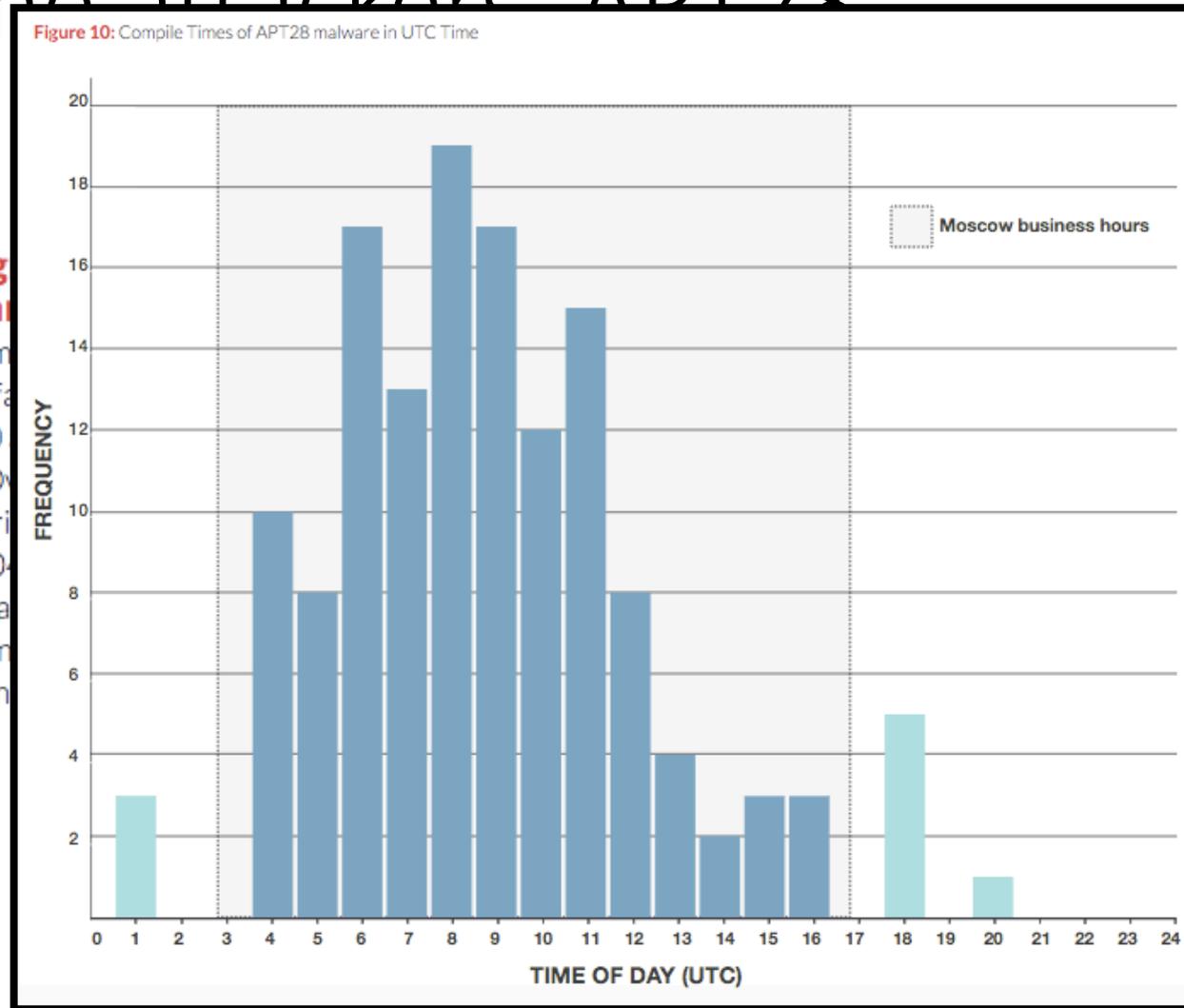
Of the 140 malware samples that we have attributed to APT28 so far, over 89% were compiled between 0400 and 1400 UTC time, as depicted in Figure 10. Over 96% were compiled between Monday and Friday. This parallels the working hours in UTC+0400 (that is, compile times begin about 8AM and end about 6PM in this time zone). This time zone includes major Russian cities such as Moscow and St. Petersburg.



Knowing the attackers: APT28

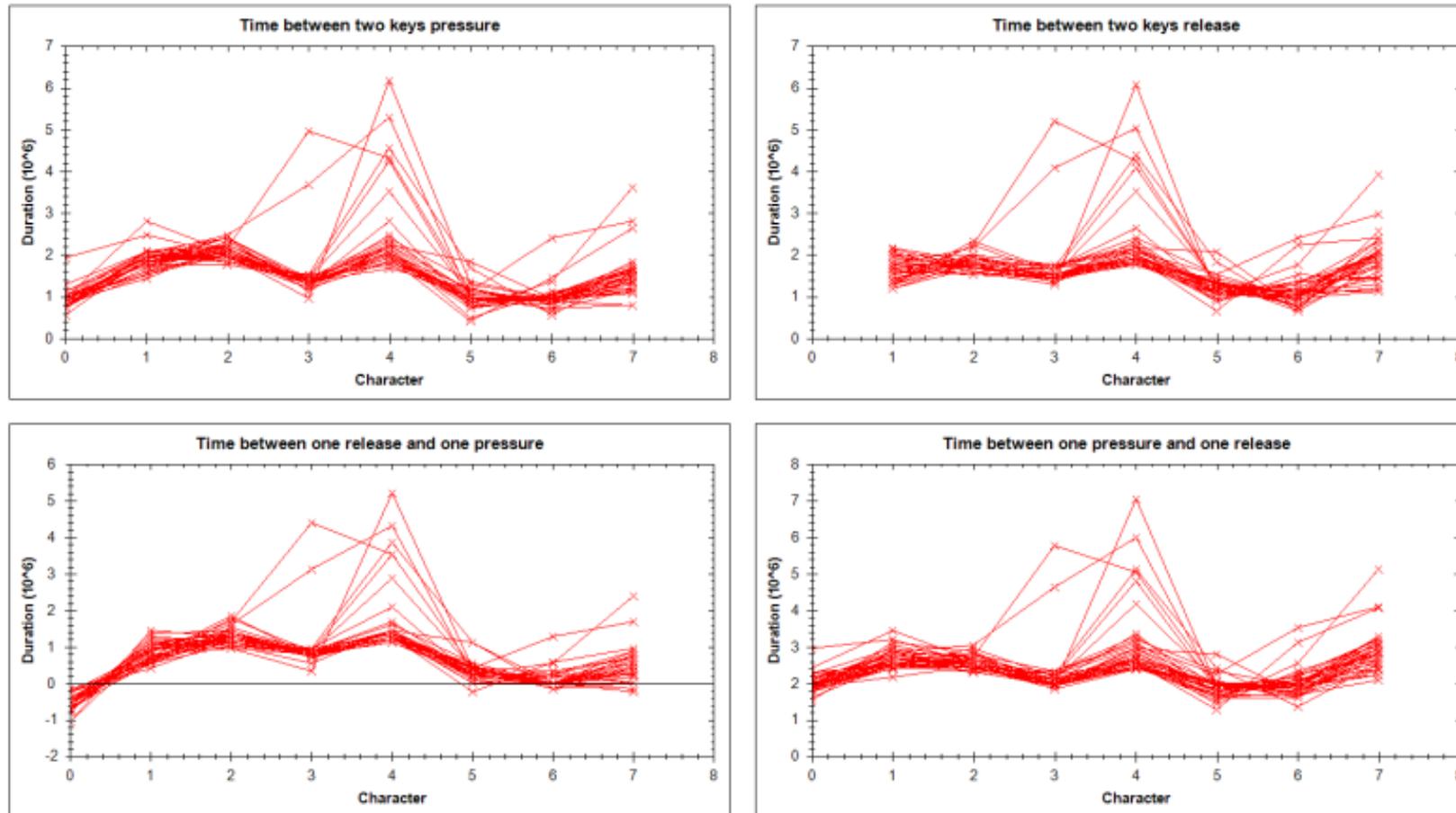
Compile Times Align Hours in Moscow and

Of the 140 malware samples attributed to APT28 so far, 100 were compiled between 0400 and 1600 UTC, as depicted in Figure 10. Over 90% of these samples were compiled between Monday and Friday during working hours in UTC+03 (Moscow working times begin about 8AM at this time zone). This time zone includes cities such as Moscow and



How the way you type can shatter anonymity

Keystroke data



Fbstalker

```
FLD-SP-C02HJ1:test klee$ python2.6 fbStal
[*] Username:  joesullivan
[*] Uid:       733651102
```

```
***** Friends of joesullivan *****
*** Backtracing from Facebook Likes/Comments
```

```
boz
maryp
charlotte
larrymagid
marisa.fagan
twi
christian.p.sullivan
jack.christin
davidrecordon
sacredheartcs
LiveNationBayArea
traci.holdt
zuck
pondhockeymovie
tim.gould.1029
```

```
***** Analysis of Facebook Post Likes *****
```

```
12 andrea.grasserbauer.7
12 CowboyUp4U
9 wendivenom
8 Nilesh.Tiwari.965
7 nat
5 kellie.bickenbach
5 joeytyson
4 tcook
```

```
***** Analysis of Time in Facebook *****
```

```
Total % (00:00 to 03:00) 22.7272727273 %
Total % (03:00 to 06:00) 18.1818181818 %
Total % (06:00 to 09:00) 4.54545454545 %
Total % (09:00 to 12:00) 22.7272727273 %
Total % (12:00 to 15:00) 4.54545454545 %
Total % (15:00 to 18:00) 4.54545454545 %
Total % (18:00 to 21:00) 0.0 %
Total % (21:00 to 24:00) 22.7272727273 %
```

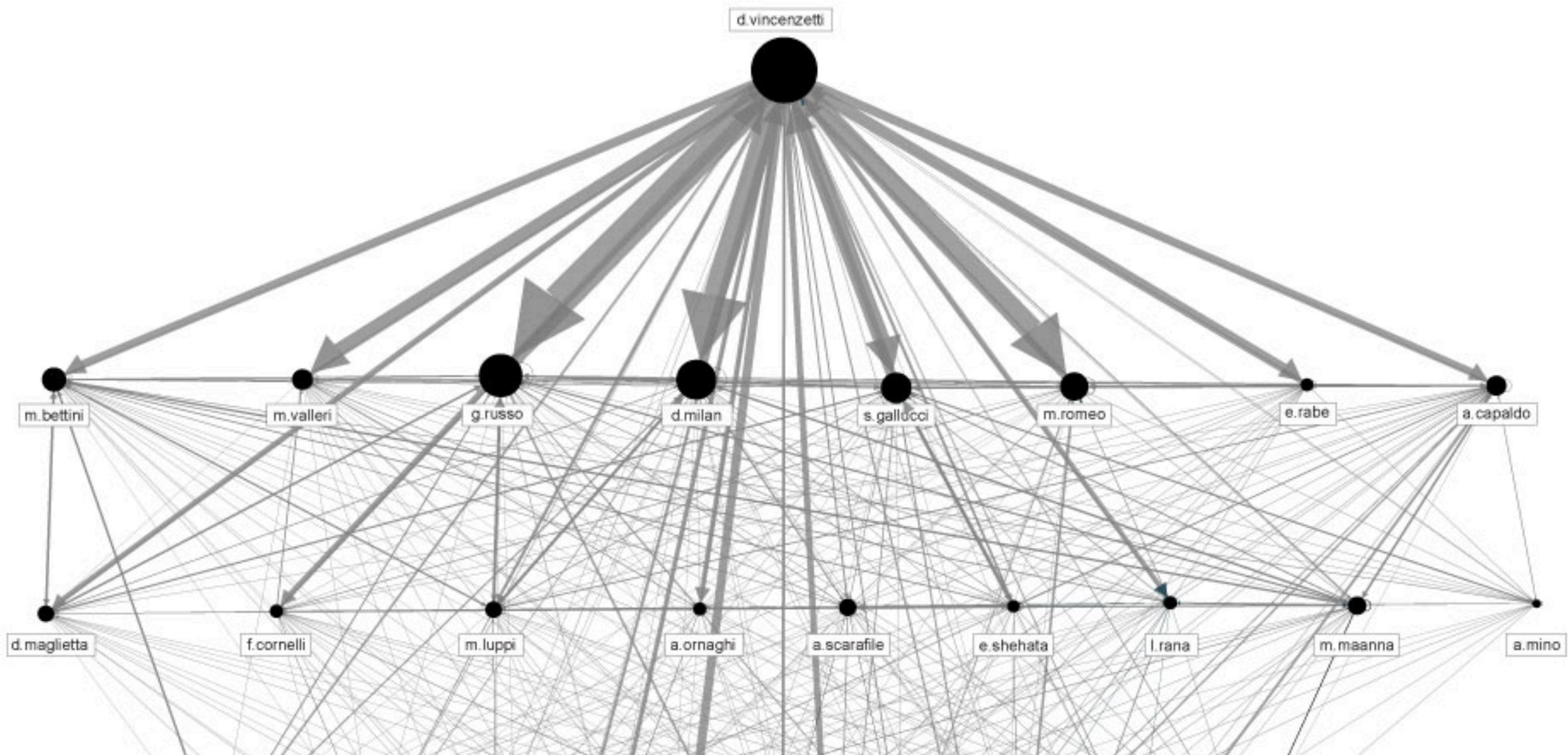
<https://labs.rs/en/metadata/>



Share Lab is a newborn child of the Share Foundation – a research and data investigation lab for exploring different technical aspects of the intersections between technology and society.

“Once online, our every movement, every click, sent or received email, our every activity produces a vast amount of invisible traces. These traces, once collected, put together and analysed, can reveal our behavioral patterns, location, contacts, habits and most intimate interests. They often reveal much more than we feel comfortable sharing.”

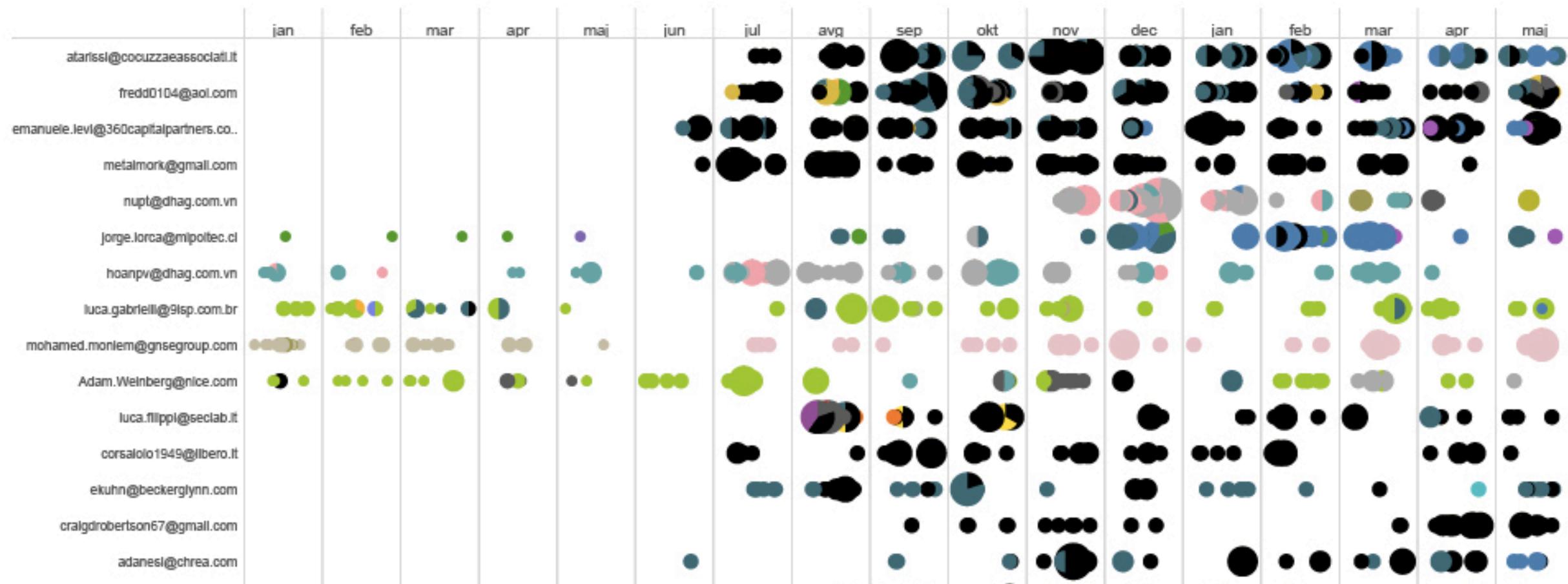
POTENTIAL ORGANISATIONAL STRUCTURE BASED ON THE LEVEL AND DIRECTION OF COMMUNICATION



EXTERNAL CONTACTS WITH MORE THAN 50 EMAILS EXCHANGED WITH HT EMPLOYEES (2014-2015)

Source	
atarissi@cocuzzaeassociati.it	
metalmork@gmail.com	
fredd0104@aol.com	
emanuele.levi@360capitalpart..	
nupt@dhag.com.vn	
hoanpv@dhag.com.vn	
luca.gabrielli@9isp.com.br	
Adam.Weinberg@nice.com	
luca.filippi@seclab.it	
ekuhn@beckerglynn.com	
Zohar.Weizinger@nice.com	
mohamed.moniem@gnsegrou..	
viktor.gal@vgdefence.com	
Reuven.Elazar@nice.com	
jorge.lorca@mipoltec.cl	
gianmarco.gnemmi@db.com	
corsaiolo1949@libero.it	
Enrico.Frizzi@BULGARI.com	

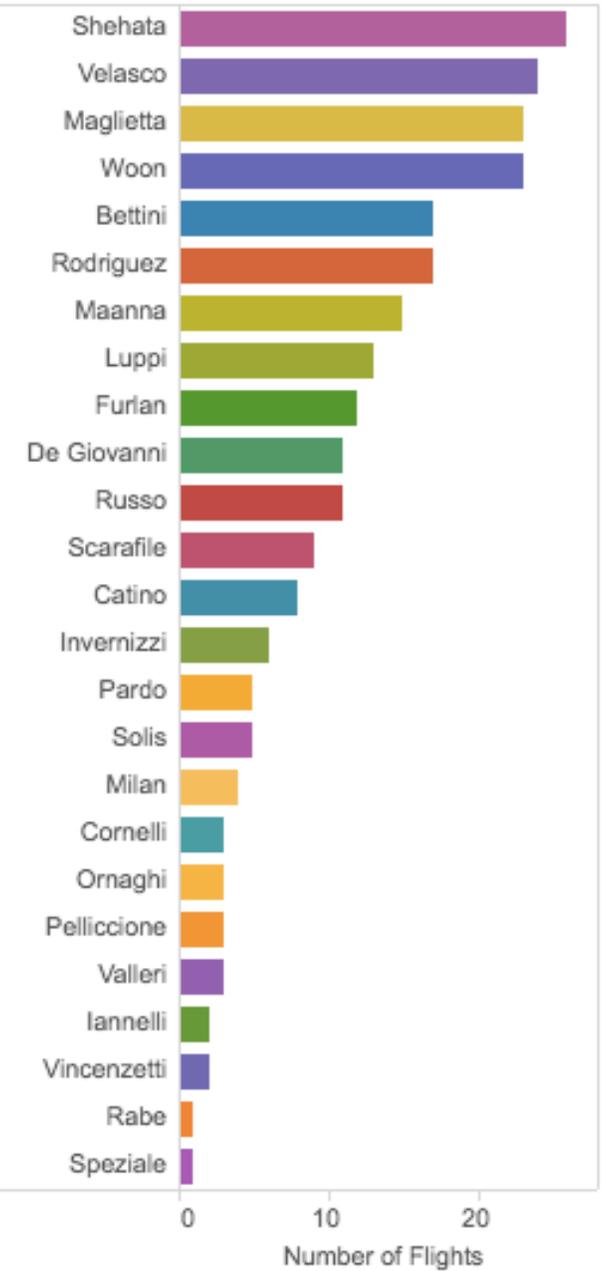
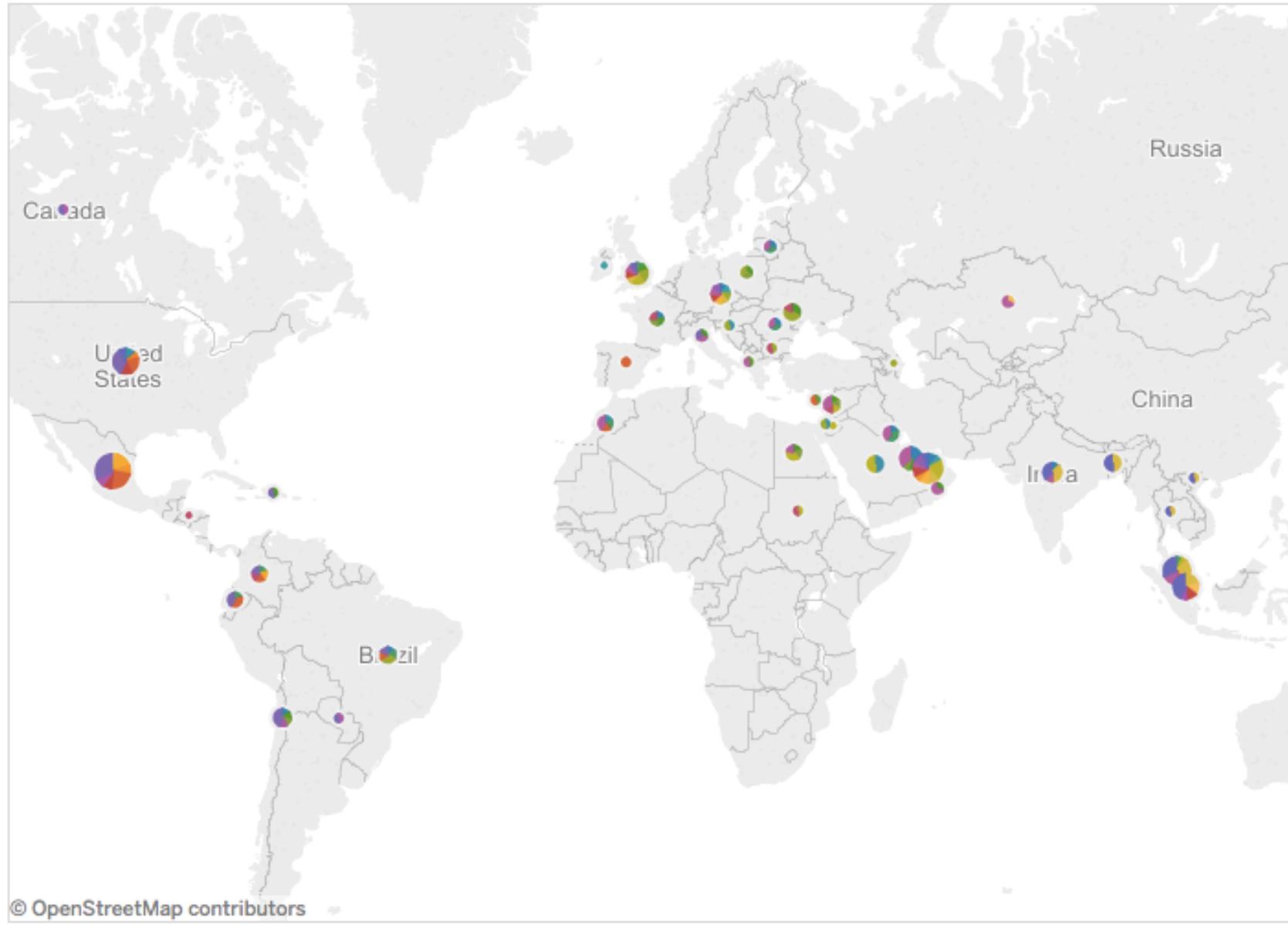
TIMELINE OF INDIVIDUAL COMMUNICATION OF EXTERNAL CONTACTS AND HT EMPLOYEES (2014-2015)



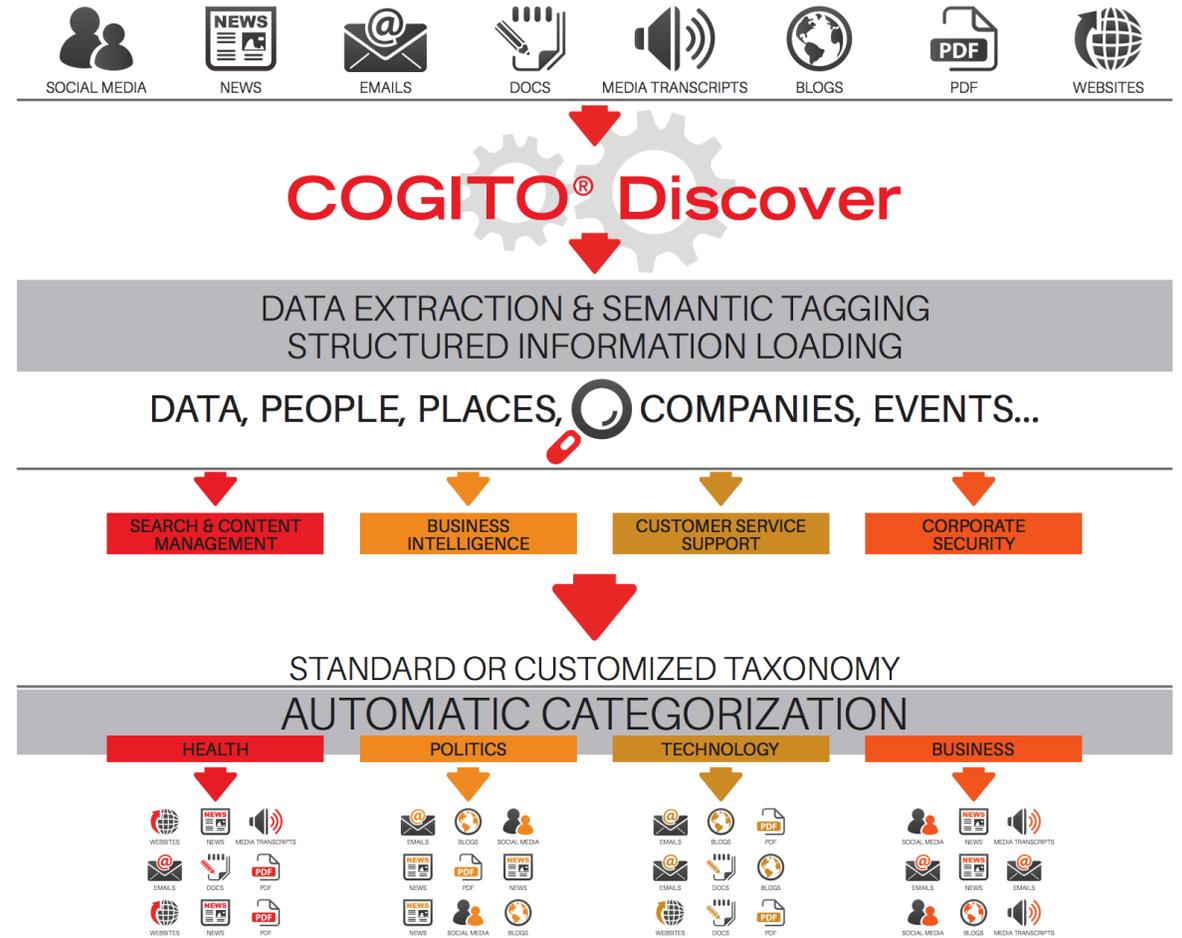
TIMELINE OF SUBJECT LINES (2014)

Subject	January	February	March	April
Clausola CATCHALL, Aggiornamento, Ieri martedì 4 a Roma				●●
Incontro				●●●●●
Palo Alto Networks Content Updated	●			●
Weekly	●		●●	●
Italian Lasagna - Touch-Base	●●●●●●●		●	●
Revised LEO.pdf				
Subscribe me to the mailing list				
DAP Proposal per PUMA				
Puma DAT document 4595				
DemoROP				
CV			●	●●
Wall Street Journal article:				
/etc/aliases	●	●	●	●
/etc/LISTA.txt	●	●	●	●
Nano-Sim x BB Passport 4G				
/etc/FLISTA.txt	●	●	●	●
Azerbaijan - new opportunity.				

MAP OF HT EMPLOYEES FLIGHTS BASED ON CWT EMAILS SUBJECT LINES



So much data so little time



GEOFEEDIA

CIA-Backed Firm Touted Social Media Surveillance of Students to Sell Services to Police

Geofeedia provides law enforcement with tools to monitor social media use by mapping location and other data. It has received funding from the investment arm of the CIA, In-Q-Tel.

by Will Pierce

<https://www.mintpressnews.com/geofeedia-student-surveillance/249107/>
https://cdn2.hubspot.net/hubfs/2037777/Brochure_Cogito%20Discover.pdf

Cities under surveillance 1/2

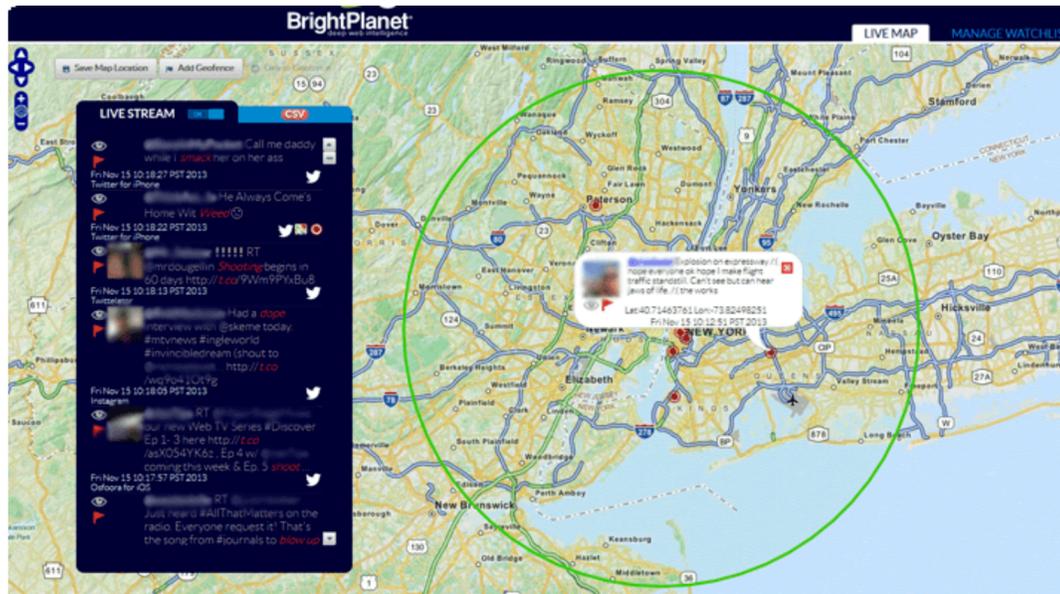
THE POLICE OFFICER'S NEW TOOLS

As Police Monitor Social Media, Legal Lines Become Blurred

February 28, 2014 · 8:39 PM ET
Heard on [All Things Considered](#)



MARTIN KASTE



BlueJay, a tool by social media monitoring company BrightPlanet, shows the locations of tweeters who have left their geotagging option activated.



POLICY —

First Chicago robber caught via facial recognition gets 22 years

With more cops using facial recognition tech, questions of efficacy remain.

CYRUS FARIVAR - 6/9/2014, 8:10 PM



<https://www.npr.org/sections/alltechconsidered/2014/02/28/284131881/as-police-monitor-social-media-legal-lines-become-blurred?t=1559804031972>

<https://arstechnica.com/tech-policy/2014/06/first-chicago-robber-caught-via-facial-recognition-gets-22-years/>

Cities under surveillance 2/2

New York school district's facial recognition system sparks privacy fears

Plan for cameras to track students in Lockport's schools called 'unprecedented invasion of privacy' and 'colossal waste of money'



▲ A display shows a facial recognition system at an industry conference in Washington DC. Photograph: Saul Loeb/AFP/Getty Images

CHICAGO 10/26/2012 03:29 pm ET

ShotSpotter Gunshot 'Listening' Technology Comes To Chicago Police Force

Chicago police are using a new technology that can listen for gunshots and help the responding officers pinpoint where they were fired. The technology, called ShotSpotter, relies on an acoustics-based, GPS-equipped system to feed police the location of a gunshot

https://www.huffpost.com/entry/shotspotter-gunshot-liste_n_2025220

<https://www.theguardian.com/technology/2019/may/31/facial-recognition-school-new-york-privacy-fears>

Tracking is
valid also for
non-digital
contents like
books

- **What is the USA PATRIOT Act?**
 - On October 25, 2001, Congress passed the "Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism" (USA PATRIOT) Act. The act broadly expands law enforcement's surveillance and investigative powers, with Sections 214-216 applying to libraries and bookstores.
- **How is SFPL responding to the USA PATRIOT Act?**
 - The USA PATRIOT Act is law, and the Library will comply with it. However, both the Library Commission and the San Francisco Board of Supervisors have formally opposed the Act, including Sections 214-216.
- **What are Sections 214-216 of the USA PATRIOT Act?**
 - These sections of the Act give law enforcement **agencies expanded authority to obtain Library records**, secretly monitor electronic communications and prohibit libraries and librarians from informing users of such monitoring or information requests.

CHINA'S SOCIAL CREDIT SYSTEM

It's been dubbed the most ambitious experiment in digital social control ever undertaken. The Chinese government plans to launch its Social Credit System nationally by 2020.

WHAT'S THE AIM?

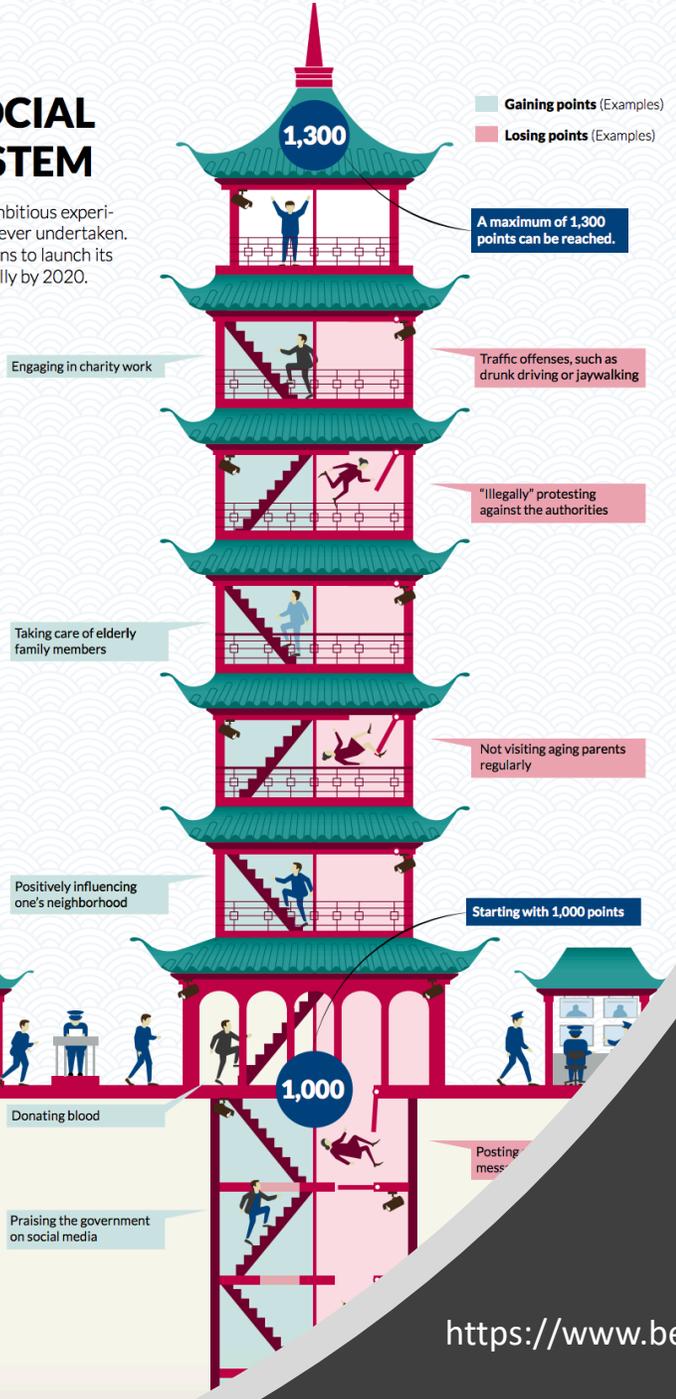
The system intends to monitor, rate and regulate the financial, social, moral and, possibly, political behavior of China's citizens - and also the country's companies - via a system of punishments and rewards. The stated aim is to "provide the trustworthy with benefits and discipline the untrustworthy."

The Chinese government considers the system an important tool to steer China's economy and to govern society. There is still much speculation about how the final system will actually function. Details in this chart are based on pilot schemes and plausible expert expectations.

HOW DOES IT WORK?

Each citizen is expected to be given a social credit score that will increase or decrease depending on whether the subject's social behavior is acceptable.

The system is expected to draw on huge amounts of data about each and every individual, gathered from traditional sources - such as financial, criminal and government records and existing data from



REWARDS AND PUNISHMENTS

Citizens with high scores get to enjoy special "privileges" while those with low scores ultimately risk getting treated as second-class citizens.

HIGH SCORES CAN LEAD TO

- ★ Priority for school admissions and employment
- ➡ Easier access to loans and consumer credit
- 🚲 Deposit-free and car hire
- 🏊 Free gym facilities
- 🚆 Cheaper train tickets
- 🏠 Faster home mortgage

Yeah, but what's the impact on me?

How to share less metadata*

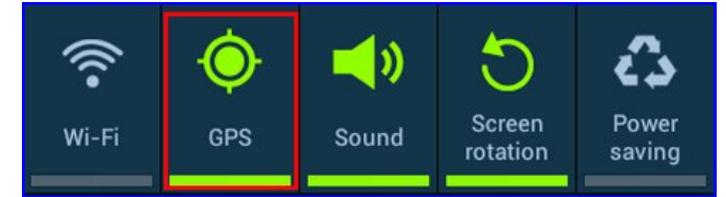
- Avoid Geo-Tagging when possible on all the devices and socials apps.

PS: even if you disable the Location tracking in FB, the app, might use your IP address in order to track your location.

- Use software to delete Exif or other metadata.

PS: do not upload your photos on sites with exif metadata deletion capabilities 😊

*Main suggestions in no specific order and not comprehensive



How to share less metadata*

- Using a fake name on social it's not that useful (your likes and your friends will be still real).
- Nicknames are usually unique, pay attention how you use it (emails, socials etc..).
- Avoid to fill the “subject” in the emails or use generic strings like: info, slides, details, opportunity etc... same thing for the attachments.
- Digital payments concerns (e.g. pay cash critical “things”?).
- Check terms & conditions and avoid registering on sites with T&C not updated: very likely the proper controls on your data and metadata is low.
- Avoid using vocal messages.

*Main suggestions in no specific order and not comprehensive

How to share less metadata*

- Avoid having Wifi and Bluetooth always enabled (quite hard!)
- Follow privacy hardening guides at least for the main products you use (maps, FB, Whatsapp, Google services etc...)
- Remember that you location might be known due to usage of taxi apps, food delivery apps etc..
- T-shirt anti-face recon (?)
- Cancel cookies frequently
- Go at the e-privacy conference
- Stay updated on the topic
- Etc...

*Main suggestions in no specific order and not comprehensive

The screenshot shows a WhatsApp chat window. At the top, the chat name is "Cyberlaw" with 639 subscribers. There are 346 unread messages. A text message from Giovanni Ziccardi at 16:17 says: "5. Ci sono anche progetti #militari che stanno studiando queste tecnologie (in Marina, ad esempio)." Below it is an anonymous poll: "Vi fareste mai impiantare un chip sottopelle per finalità non mediche ma di vita di relazione o lavorativa?". The poll results are: 11% Sì, senza problemi; 80% No, assolutamente no; 6% Sì, ma solo per finalità lavorative (badge, cartellino, macchinette, apriporte, autenticazione); 3% Sì, ma solo per finalità ludiche (accendere le luci, sbloccare la porta, gestire elettrodomestici). The poll has 182 votes and was sent at 16:23.

346 chats

Cyberlaw 639 subscribers

5. Ci sono anche progetti #militari che stanno studiando queste tecnologie (in Marina, ad esempio).
471 Giovanni Ziccardi, 16:17

Vi fareste mai impiantare un chip sottopelle per finalità non mediche ma di vita di relazione o lavorativa?
Anonymous Poll

11% Sì, senza problemi

80% No, assolutamente no

6% Sì, ma solo per finalità lavorative (badge, cartellino, macchinette, apriporte, autenticazione)

3% Sì, ma solo per finalità ludiche (accendere le luci, sbloccare la porta, gestire elettrodomestici)

182 votes
475 Giovanni Ziccardi, 16:23

A «new» usage method?

YF

Yiqin Fu @yiqinfu · 28 mag

A Germany-based Chinese programmer said he and some friends have identified 100k porn actresses from around the world, cross-referencing faces in porn videos with social media profile pictures. The goal is to help others check whether their girlfriends ever acted in those films.

Traduci il Tweet

使用Face Recognition/Identification和Behavior Recognition 对 Spider 抓

@将记忆深埋

鉴于很多人都在说程序员是各种退休小姐姐的接盘侠，我联合了几个小伙伴准备把1024、91等各种知名或不知名网站上的视频及图片打tags后去做匹配。为码农朋友们做一个初步过滤。



2018-8-13 18:51 来自 微博手机版

4181 | 747 | 679

收藏

3712

363

471

转发到微博

转发到私信

Thanks!

Stay in touch @infoshaker