SPARC STALKING PREVENTION, AWARENESS, AND RESOURCE CENTER

Stalking 2.0:

The Use of Technology to Stalk

OVW Funding

This project was supported by Grant No. 2017-TA-AX-K074 awarded by the Office on Violence Against Women, U.S. Department of Justice. The opinions, findings, conclusions, and recommendations expressed in this program are those of the author(s) and do not necessarily reflect the views of the Department of Justice, Office on Violence Against Women.

A pattern of behavior directed at a specific person that would cause a reasonable person to feel

FEAR for the person’s safety

or the safety of others; or suffer substantial emotional distress.

What's so scary?

He seems nice.😍

🐊

Technology does not cause stalking.

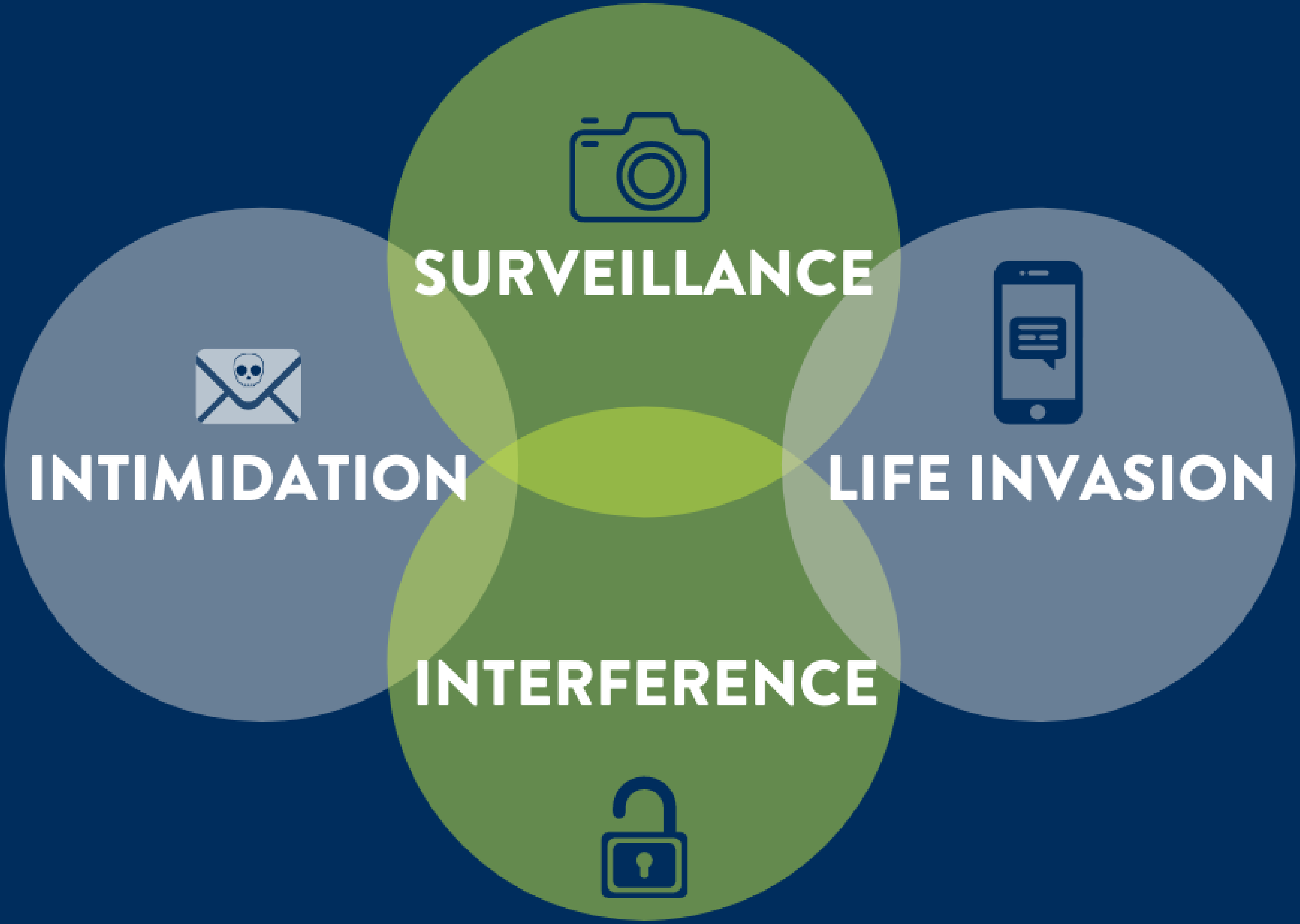
Stalkers cause stalking.

Technology & In-Person Stalking

The majority of stalking victims experienced both in-person stalking and technology-facilitated stalking.

Messing, J., Bagwell-Gray, M., Brown, M.L., Kappas, A., & Durfee, A. (2020). Intersections of Stalking and Technology-Based Abuse: Emerging Definitions, Conceptualization, and Measurement. Journal of Family Violence 35(1): 693-704.

SLII Framework



Logan, T.K. & Walker, R. (2017). Stalking: A Multidimensional Framework for Assessment and Safety Planning, Trauma, Violence and Abuse 18(2), 200-222.

SURVEILLANCE

- Smart home devices
- Tracking software/GPS
- Cameras/recordings
- Monitoring activity online
- Access to accounts

LIFE INVASION

- Unwanted contact online, texts, calls
- Impersonating victim
- Hacking victim accounts

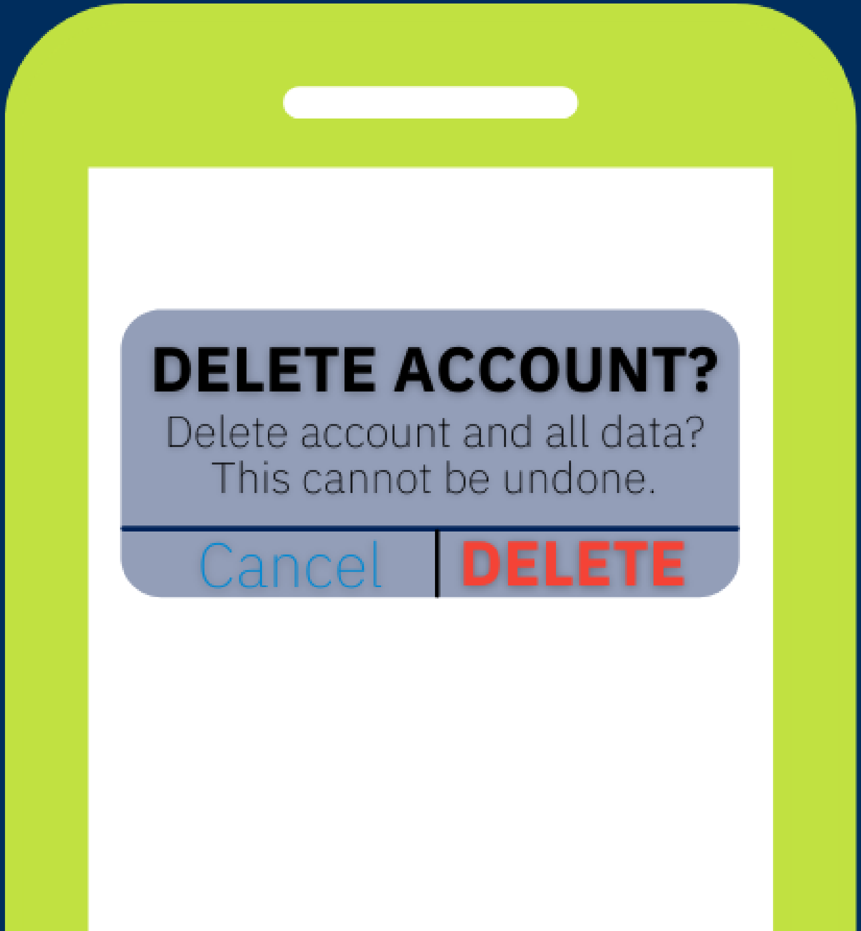
INTERFERENCE

- Posting private photos or info
- Spreading rumors
- Doxing, swatting
- Controlling accounts
- Posing as victim and creating harm

INTIMIDATION

- Blackmail
- Sextortion
- Threats - release false private info
- Threats - interfere with property, employment, other
- Threats - harm online

Should victims just log off?



DELETE ACCOUNT?

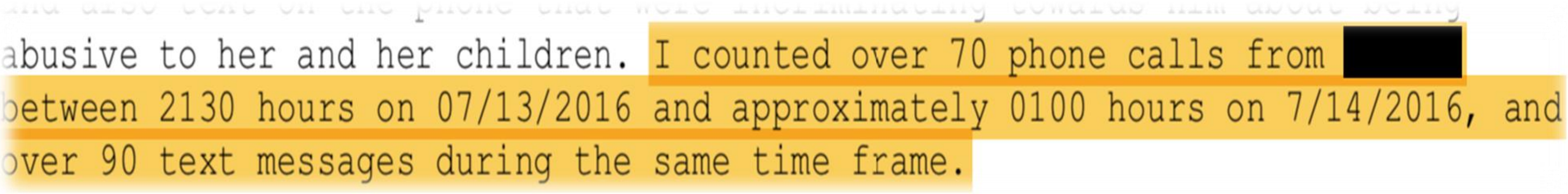
Delete account and all data?
This cannot be undone.

"…the victim's attempts to distance themselves from their stalker actually frustrate or anger the stalker, leading to an increase in the physical threat to their lives."

Quinn-Evans, L., Keatley, D.A., Arntfield, M., & Sheridan, L. (2019). A Behavior Sequence Analysis of Victims' Accounts of Stalking Behaviors. Journal of Interpersonal Violence 00(0): 1-19.

Phone Calls

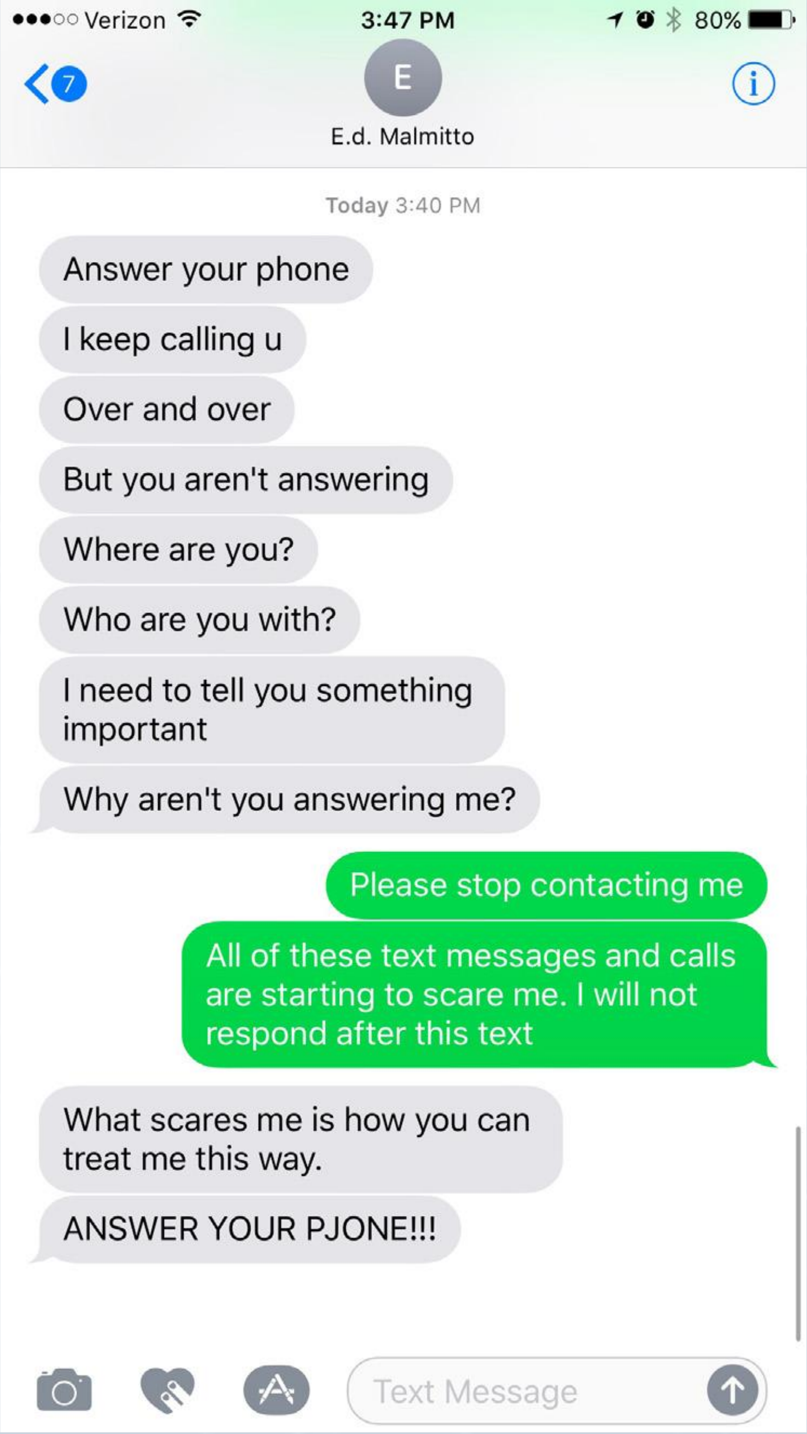
SPARC STALKING PREVENTION, AWARENESS, AND RESOURCE CENTER



and also text on the phone that were incriminating towards him about being abusive to her and her children. I counted over 70 phone calls from [redacted] between 2130 hours on 07/13/2016 and approximately 0100 hours on 7/14/2016, and over 90 text messages during the same time frame.

Text Screenshots

- Overlap screenshots
- Capture time and date
- Take a picture of the contact info
- Consider apps like Tailor or StitchIt



Today 3:40 PM

Answer your phone

I keep calling u

Over and over

But you aren't answering

Where are you?

Who are you with?

I need to tell you something important

Why aren't you answering me?

Please stop contacting me

All of these text messages and calls are starting to scare me. I will not respond after this text

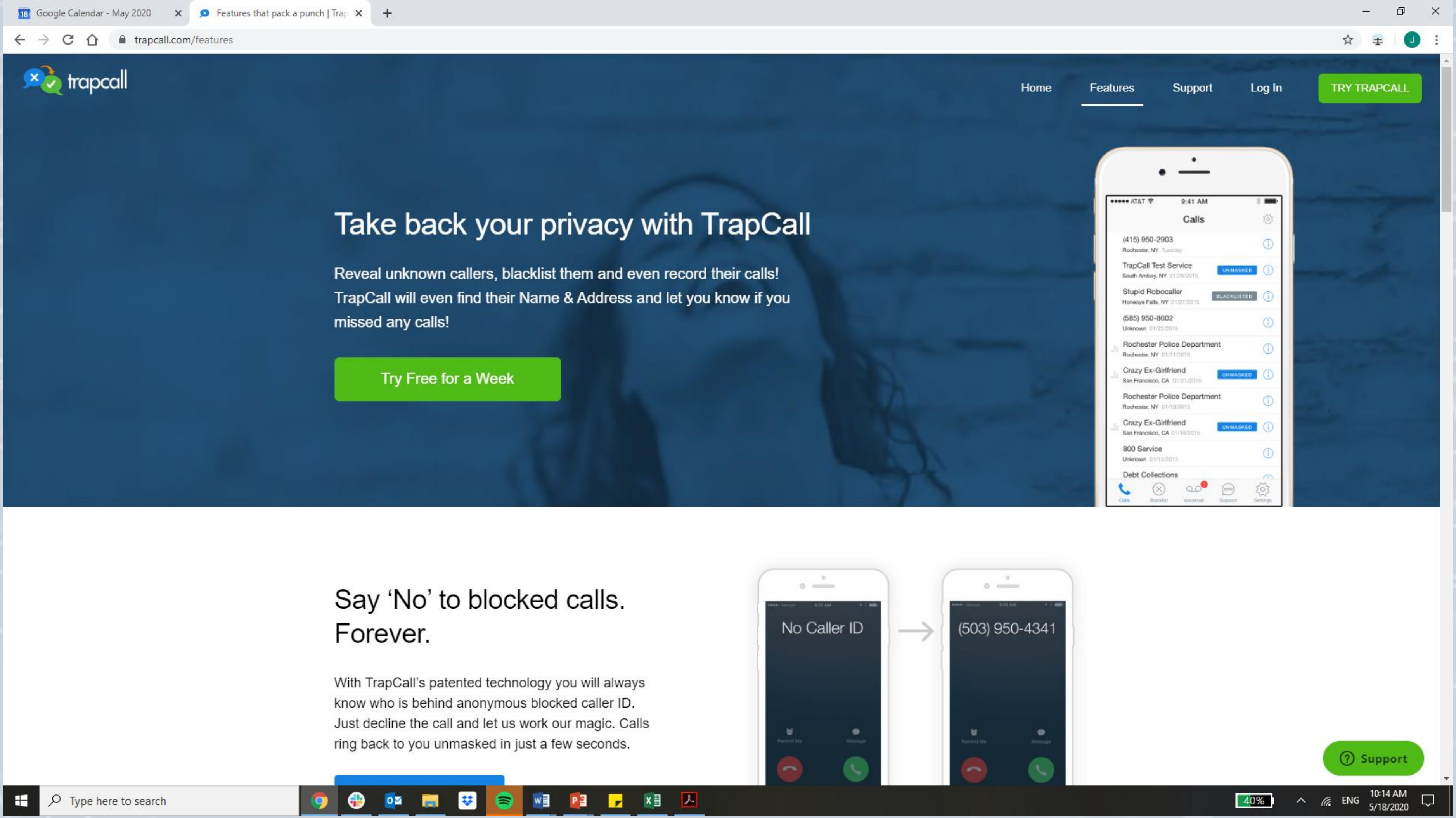
What scares me is how you can treat me this way.

ANSWER YOUR PJONE!!!

Unidentified Caller

SPARC STALKING PREVENTION, AWARENESS, AND RESOURCE CENTER

*67 Calls: TrapCall (trapcall.com)



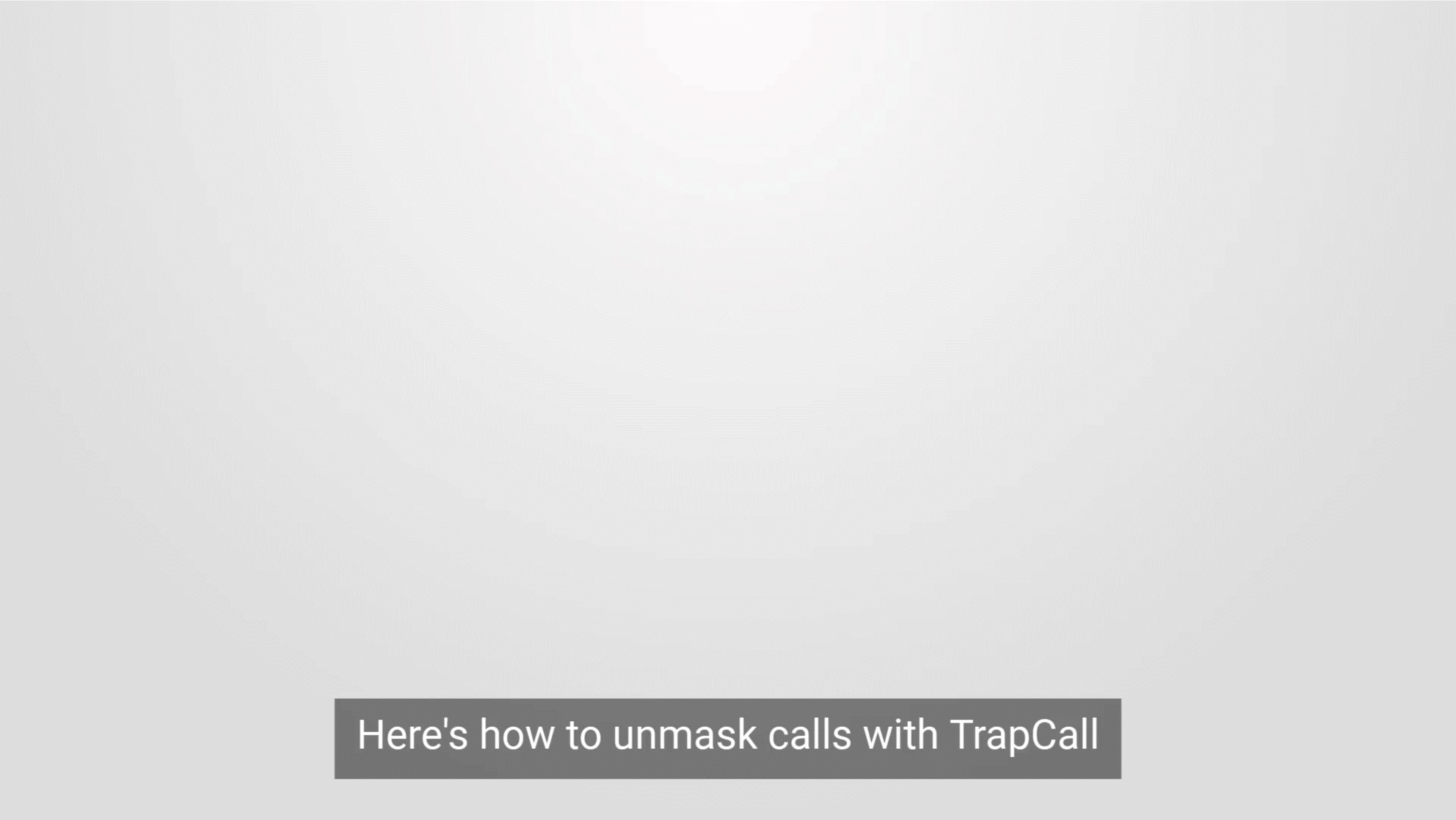
Take back your privacy with TrapCall

Reveal unknown callers, blacklist them and even record their calls! TrapCall will even find their Name & Address and let you know if you missed any calls!

Try Free for a Week

Say 'No' to blocked calls. Forever.

With TrapCall's patented technology you will always know who is behind anonymous blocked caller ID. Just decline the call and let us work our magic. Calls ring back to you unmasked in just a few seconds.

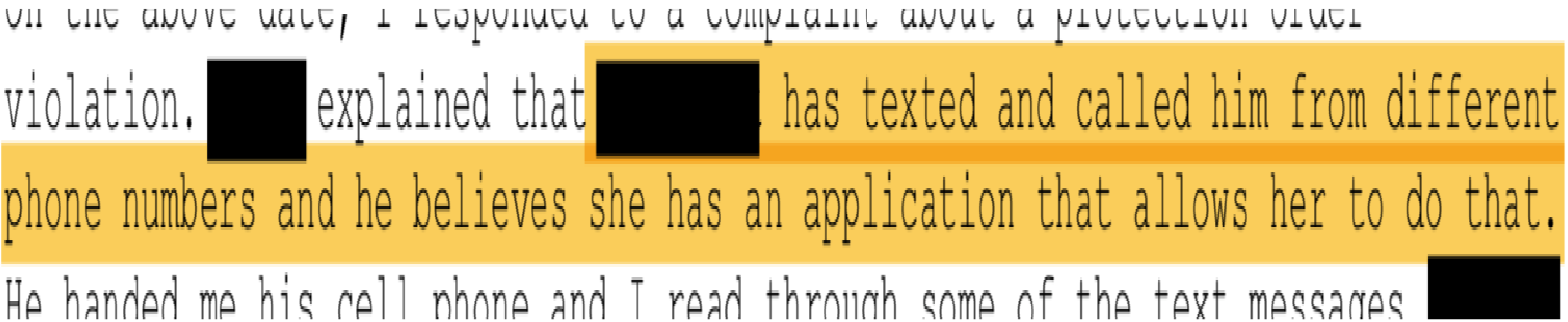


Here's how to unmask calls with TrapCall

TrapCall Limitations

* ONLY works for *67
* Offenders may have unregistered phone or use google voice or other apps
* Is there context in the calls that points to the offender
* Changing phone numbers isn’t always a good solution

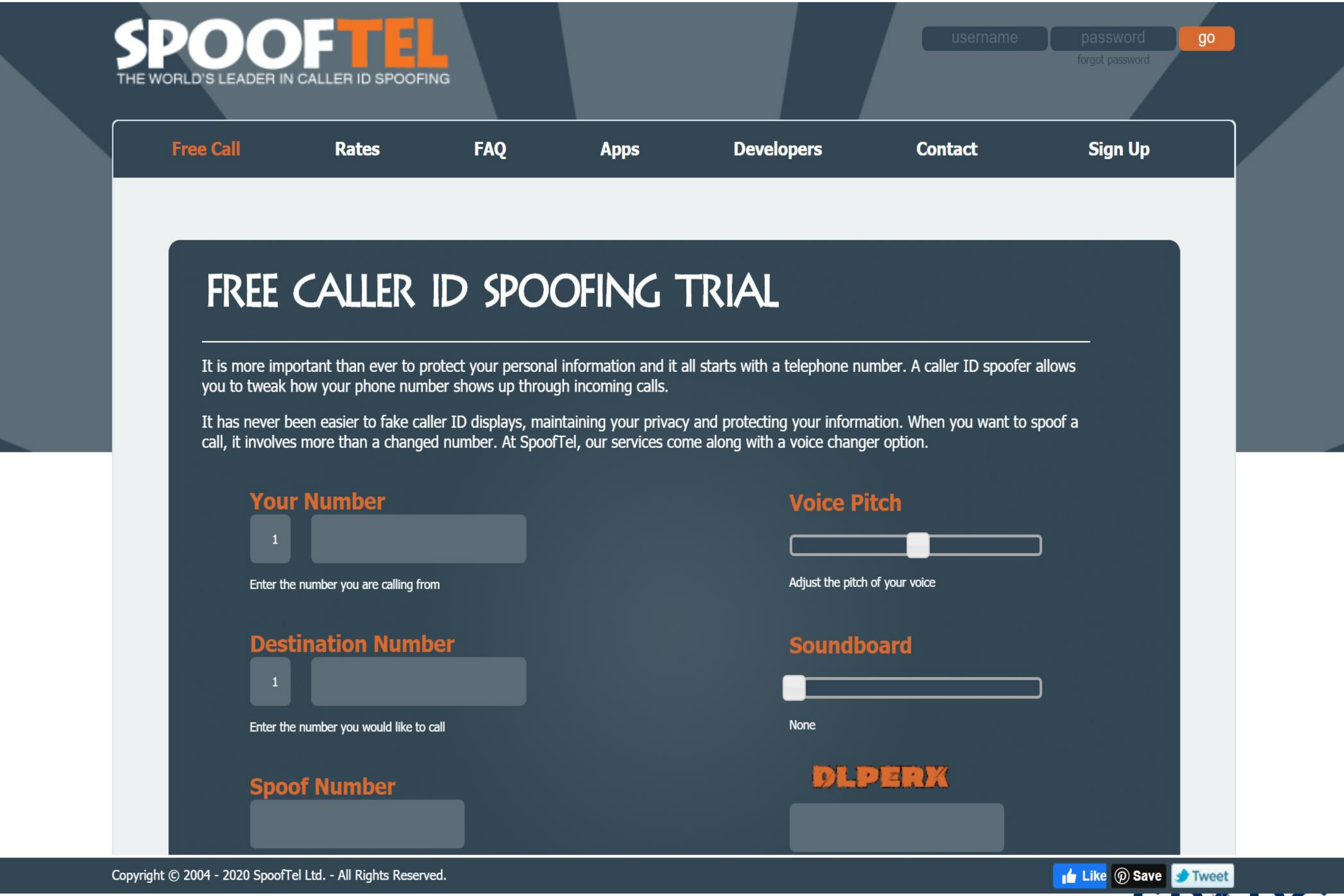
Spoofing



On the above date, I responded to a complaint about a protection order violation. [redacted] explained that [redacted] has texted and called him from different phone numbers and he believes she has an application that allows her to do that. He handed me his cell phone and I read through some of the text messages [redacted]

Spoofing

How can you remain anonymous when you call someone? The best way is by using SpoofCard. With SpoofCard you can change your CallerID to



FREE CALLER ID SPOOFING TRIAL

It is more important than ever to protect your personal information and it all starts with a telephone number. A caller ID spoofer allows you to tweak how your phone number shows up through incoming calls.

It has never been easier to fake caller ID displays, maintaining your privacy and protecting your information. When you want to spoof a call, it involves more than a changed number. At SpoofTel, our services come along with a voice changer option.

Your Number

1

Enter the number you are calling from

Voice Pitch

Adjust the pitch of your voice

Destination Number

1

Enter the number you would like to call

Soundboard

None

Spoof Number

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Spoofing: What You May Hear

- “Numbers I don’t recognize call and harass me.”
- “I keep getting hang-up calls from random numbers.”
- "It shows up as my mom/friend/someone I know, but it is the offender calling.”
- “I know it’s the offender, but it doesn’t sound like them.”
- “I blocked the offender, but they just keep calling me from different numbers.”
- "People are saying I called them, but I didn't."

Evidence with a SpoofCard

* Phone records from: victim, “friend”, and suspect
* Victim’s records show “friend” called
* Friend’s records show no call
* Suspect’s records show a call to SpoofCard
    * Call the number and record
* Financial records of suspect

Location Tracking

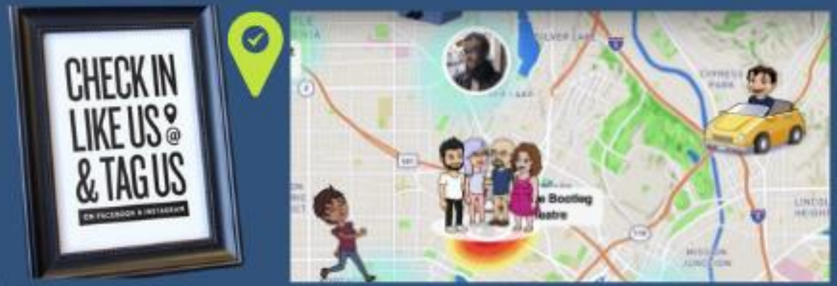
How Do Stalkers Track Location?

Property Tags

Family Tracking Devices

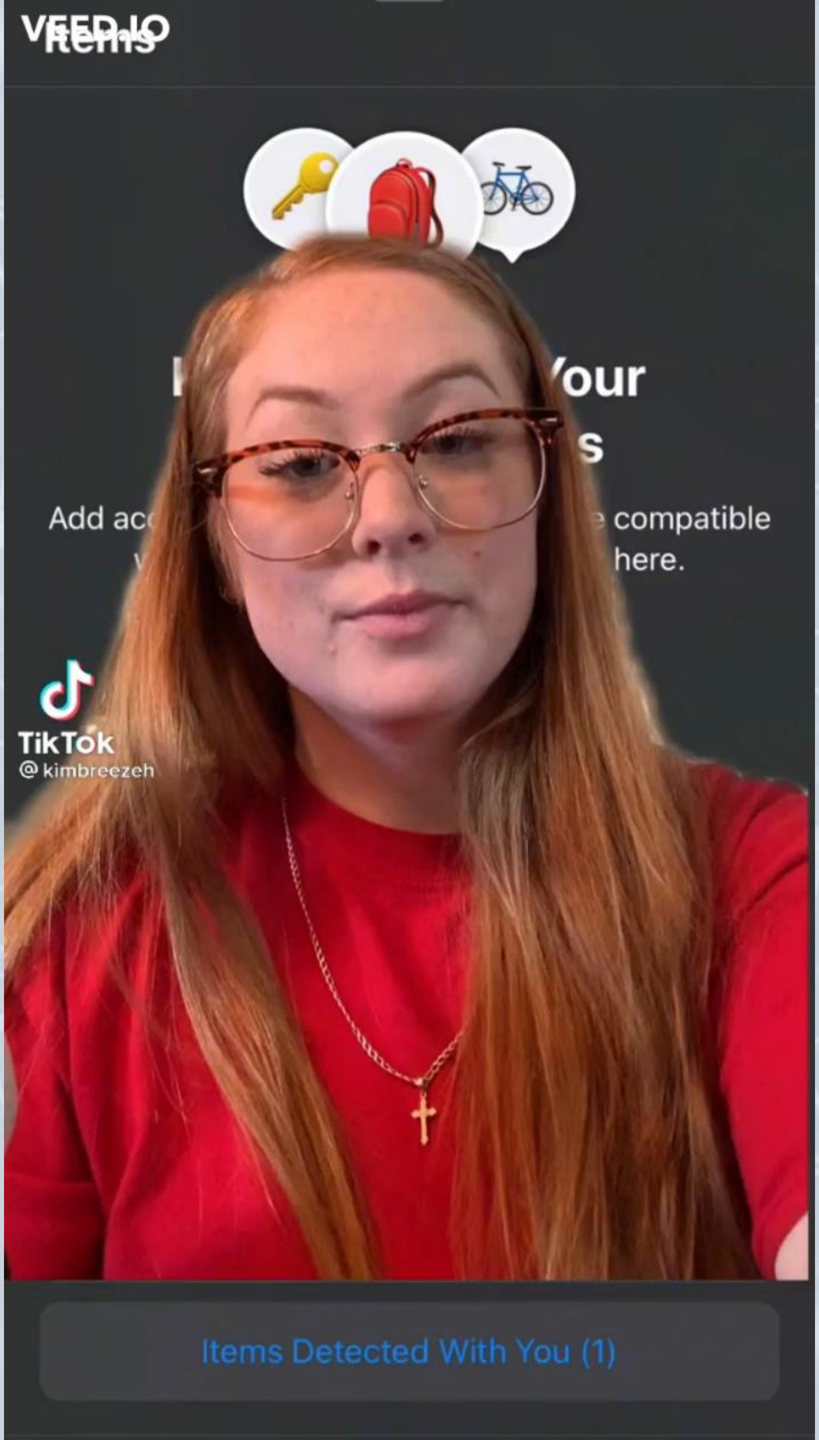
Access to and/or Shared Victim Accounts

Social Media Maps/Check-ins



Installed Stalkerware

Proxy Stalking

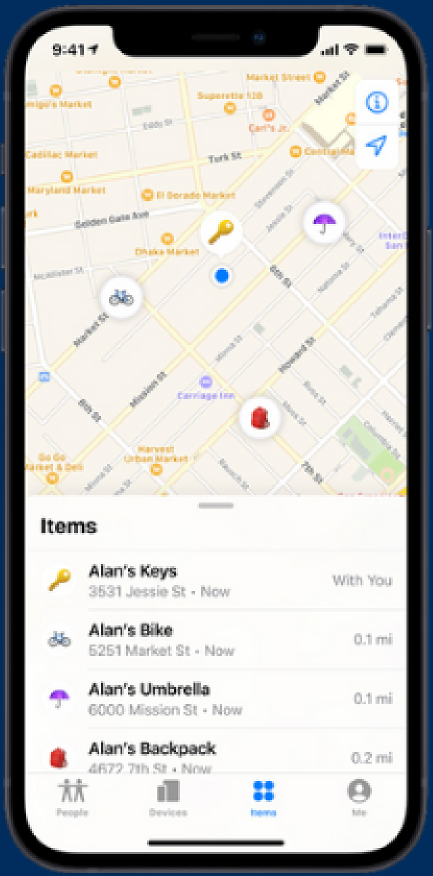

VEED.IO
Items
Your
s
Add ac
compatible
here.
TikTok
@kimbreezeh
Items Detected With You (1)

Air Tags

(note: time before notification reduced from 3 days to a few hours since this video was released)

Pinging (Oversimplified)

Understanding AirTags



Items

Alan's Keys 3531 Jessie St • Now — With You
Alan's Bike 5251 Market St • Now — 0.1 mi
Alan's Umbrella 6000 Mission St • Now — 0.1 mi
Alan's Backpack 4672 7th St • Now — 0.2 mi

- Shows current location, not location history
- Frequency of the location update varies
  - Depends on other devices in range
- While Tile requires people to have downloaded the Tile app for the location tracking to "ping," AirTag "pings" off any Apple device within 800 feet

Evidence with AirTags

* Serial number is unique to each AirTag

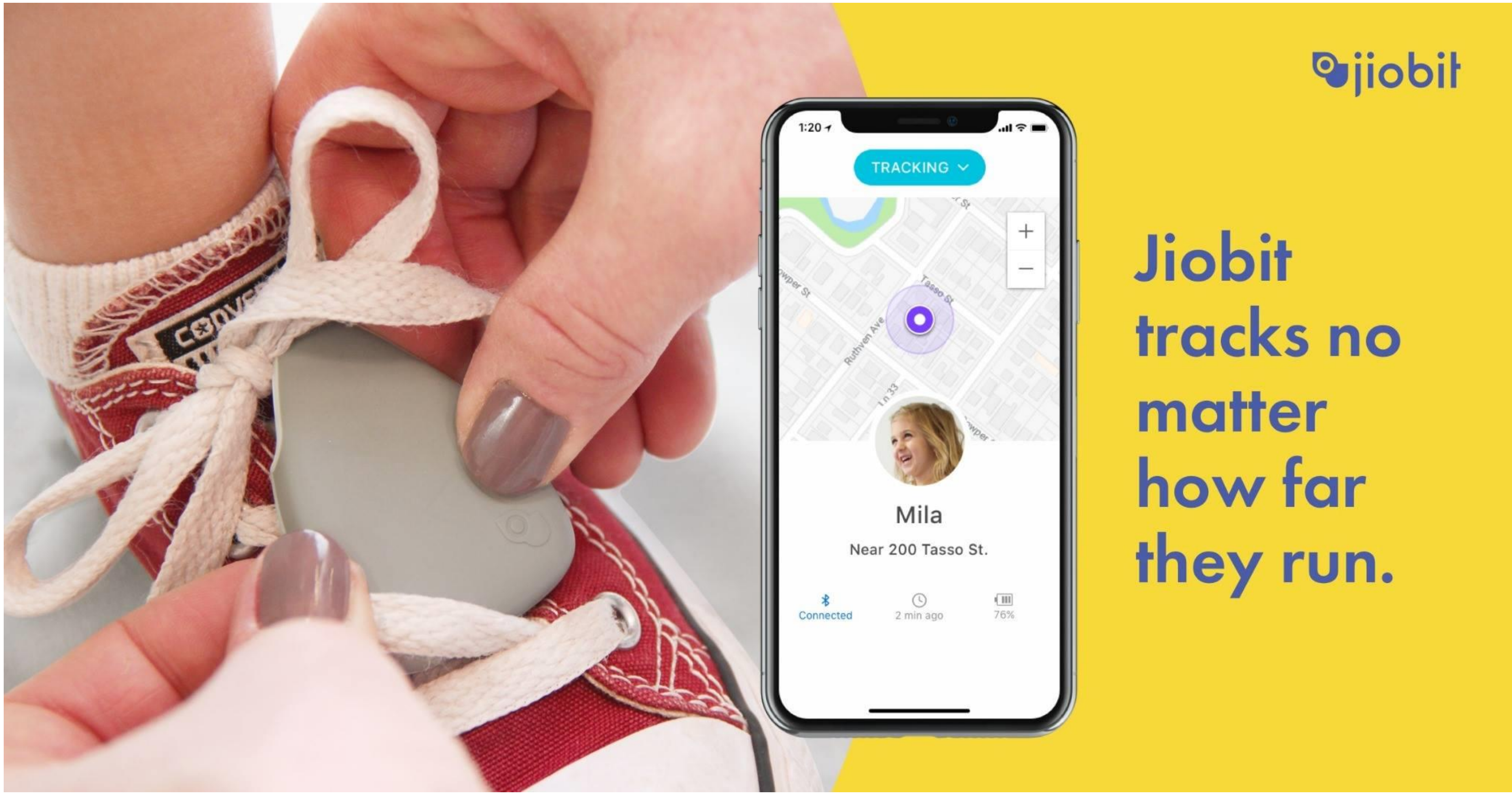
* Serial number is on physical device, but will not show up on phone

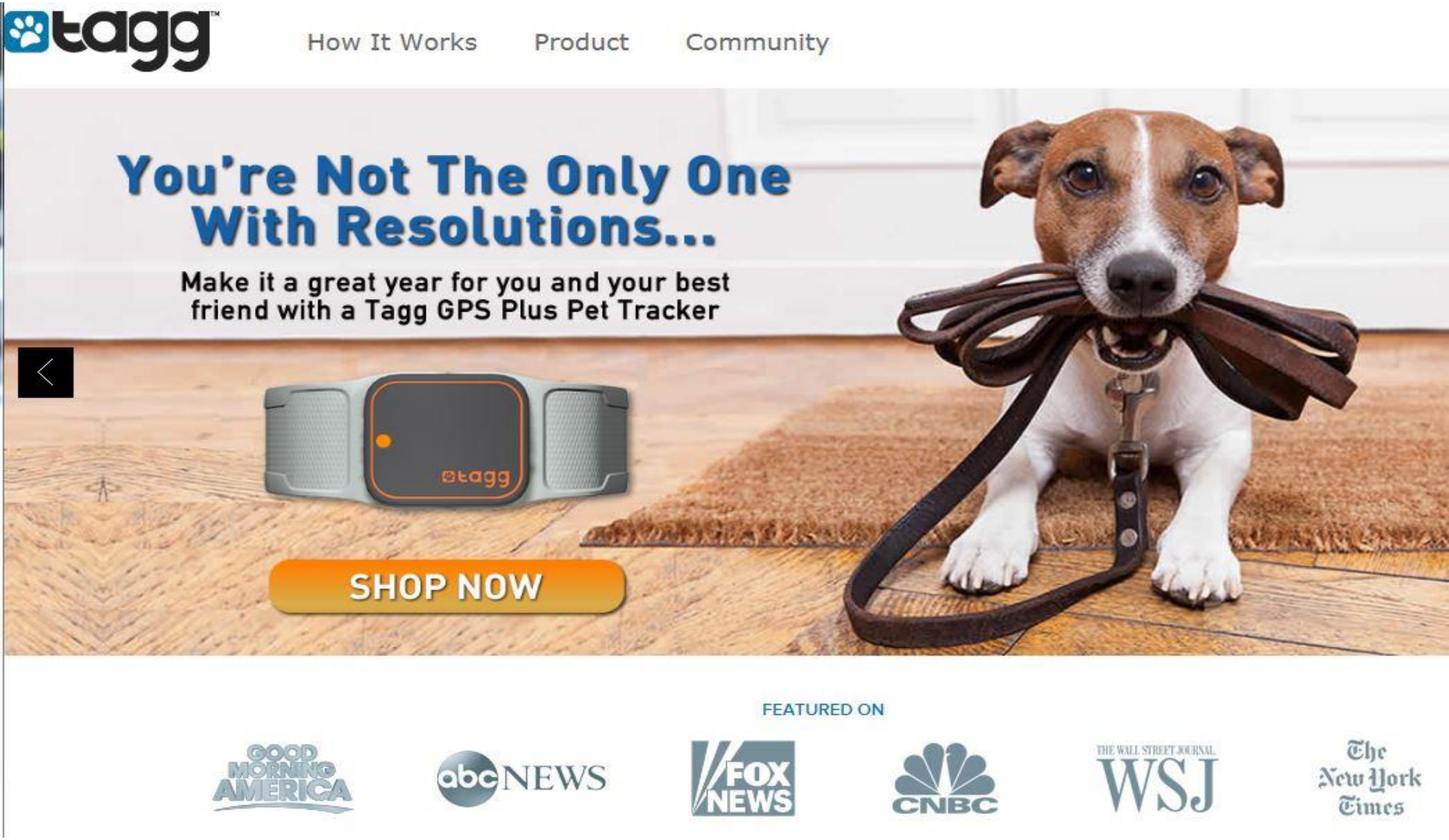
* Contact lawenforcement@apple.com to check device registration

* Check financial records of suspect

* Contextual evidence

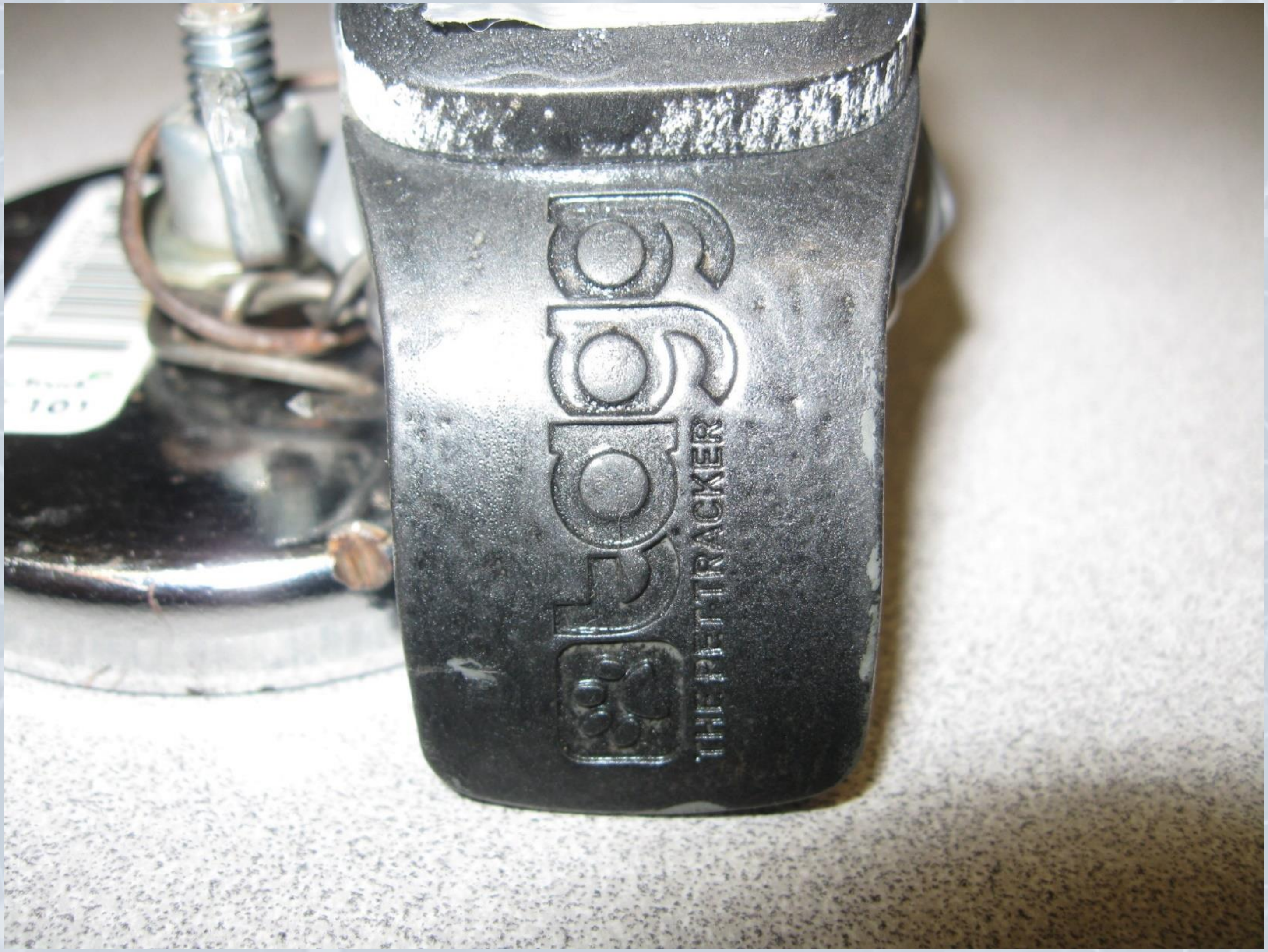
Child Trackers

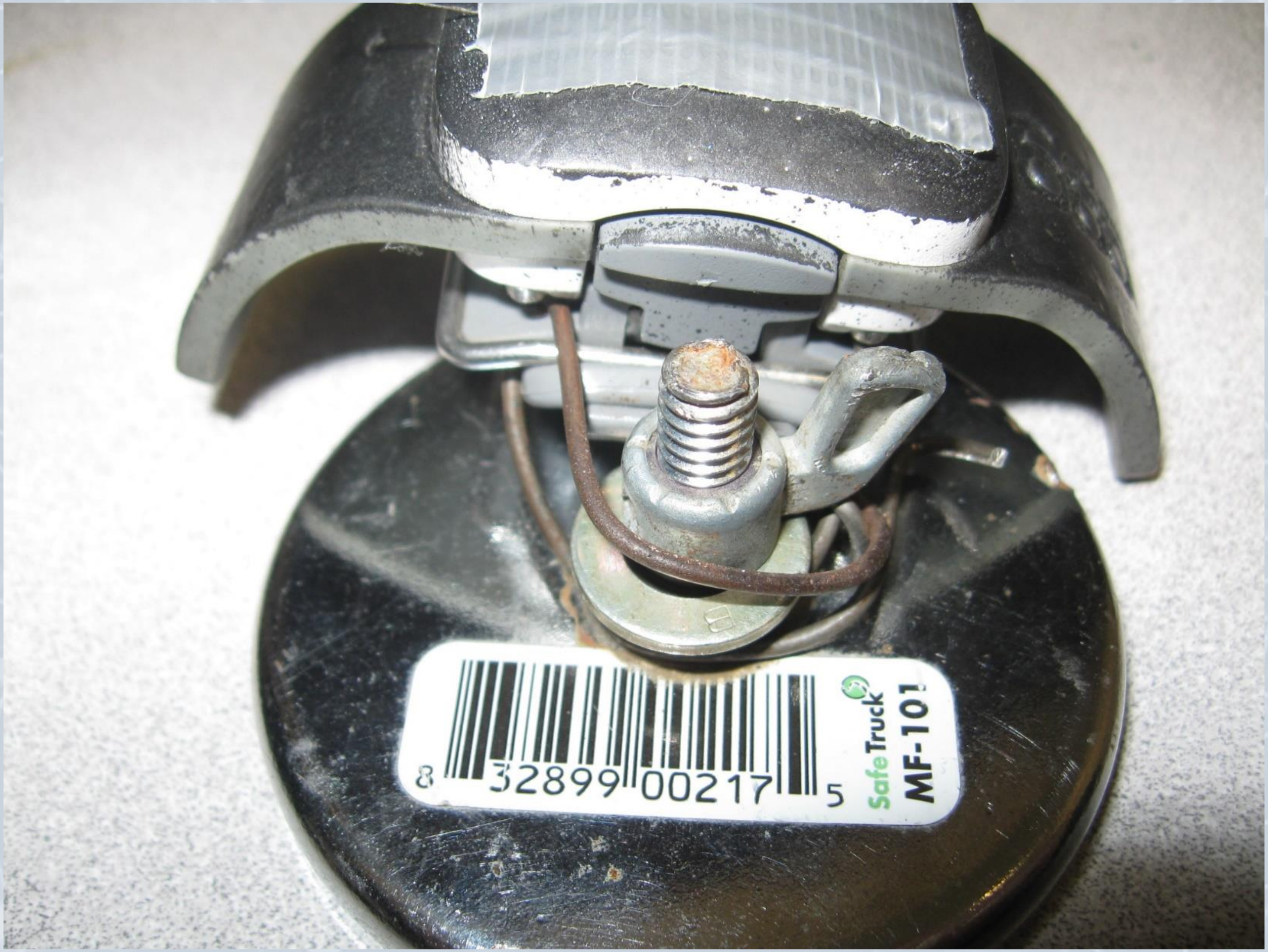




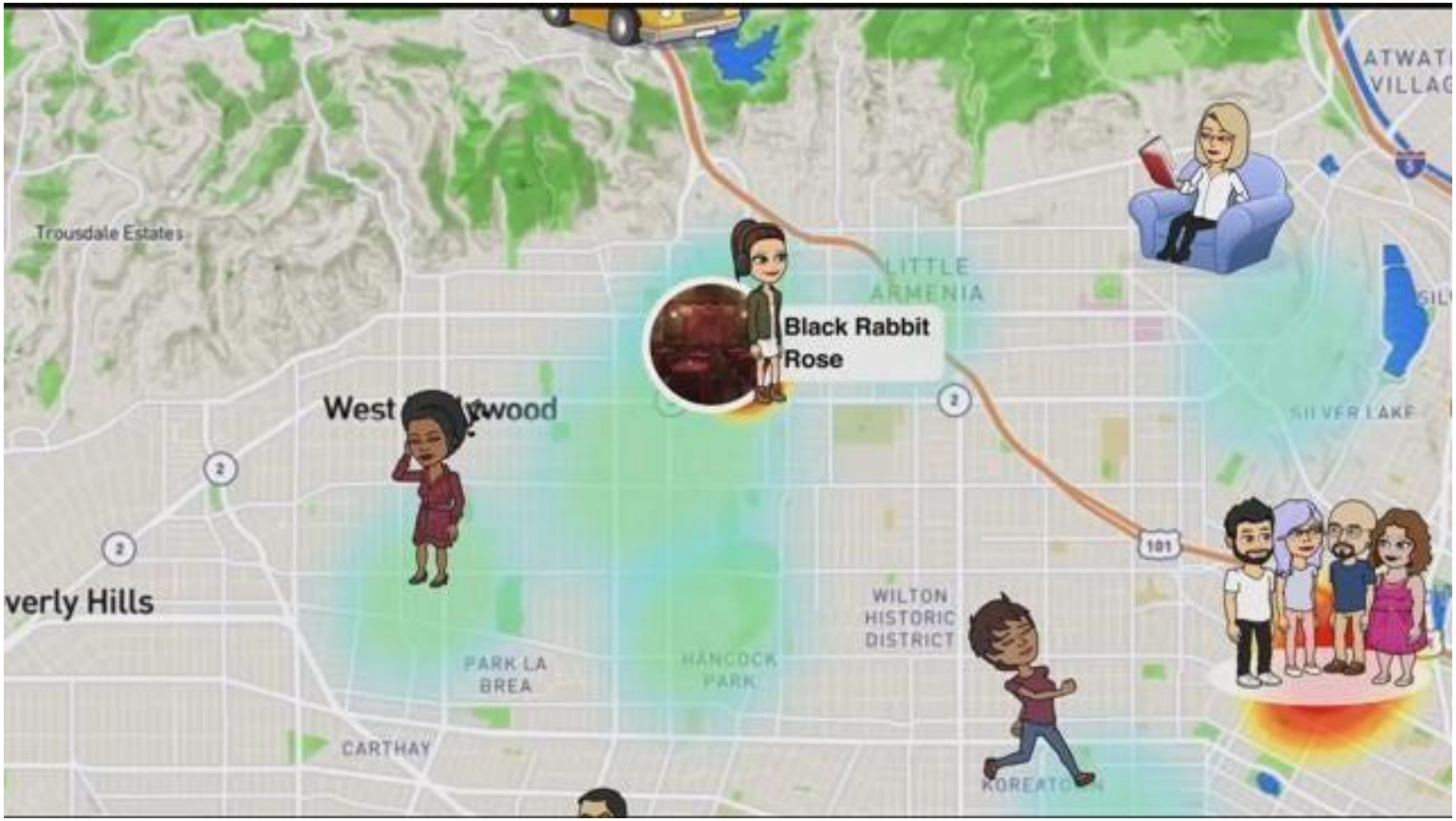
You're Not The Only One With Resolutions...

Make it a great year for you and your best friend with a Tagg GPS Plus Pet Tracker


gibi
THE PET TRACKER


8 32899 00217 5
SafeTruck
MF-101

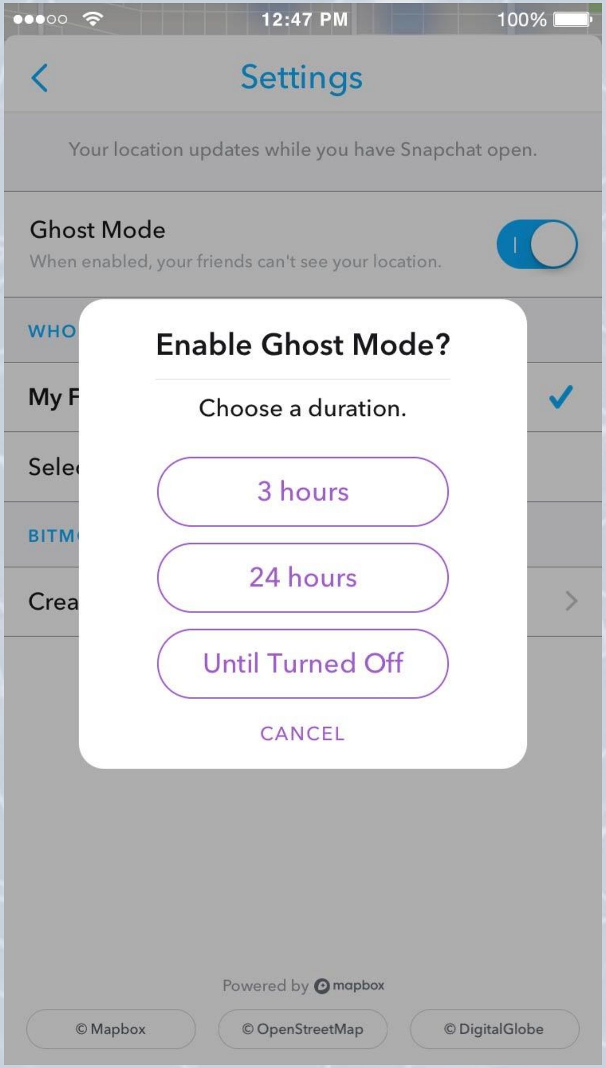
SnapMap


Trousdale Estates
LITTLE ARMENIA
Black Rabbit Rose
West Hollywood
ATWAT VILLAG
SILVER LAKE
verly Hills
2
101
WILTON HISTORIC DISTRICT
PARK LA BREA
HANCOCK PARK
CARTHAY
KOREATOWN

SnapChat Ghost Mode

Ghost Mode allows you to turn your location on and off on the Map

- * Only Me (no one sees you)
- * Select Friends (you choose who sees you)
- * My Friends (all your friends can see you)



12:47 PM 100%

Settings

Your location updates while you have Snapchat open.

Ghost Mode

When enabled, your friends can't see your location.

WHO

My F ✓

Selec

BITM

Crea

Enable Ghost Mode?

Choose a duration.

3 hours

24 hours

Until Turned Off

CANCEL

Powered by mapbox

© Mapbox © OpenStreetMap © DigitalGlobe

GPS Documentation & Evidence

Computer

- Tracking software
- Tracking websites

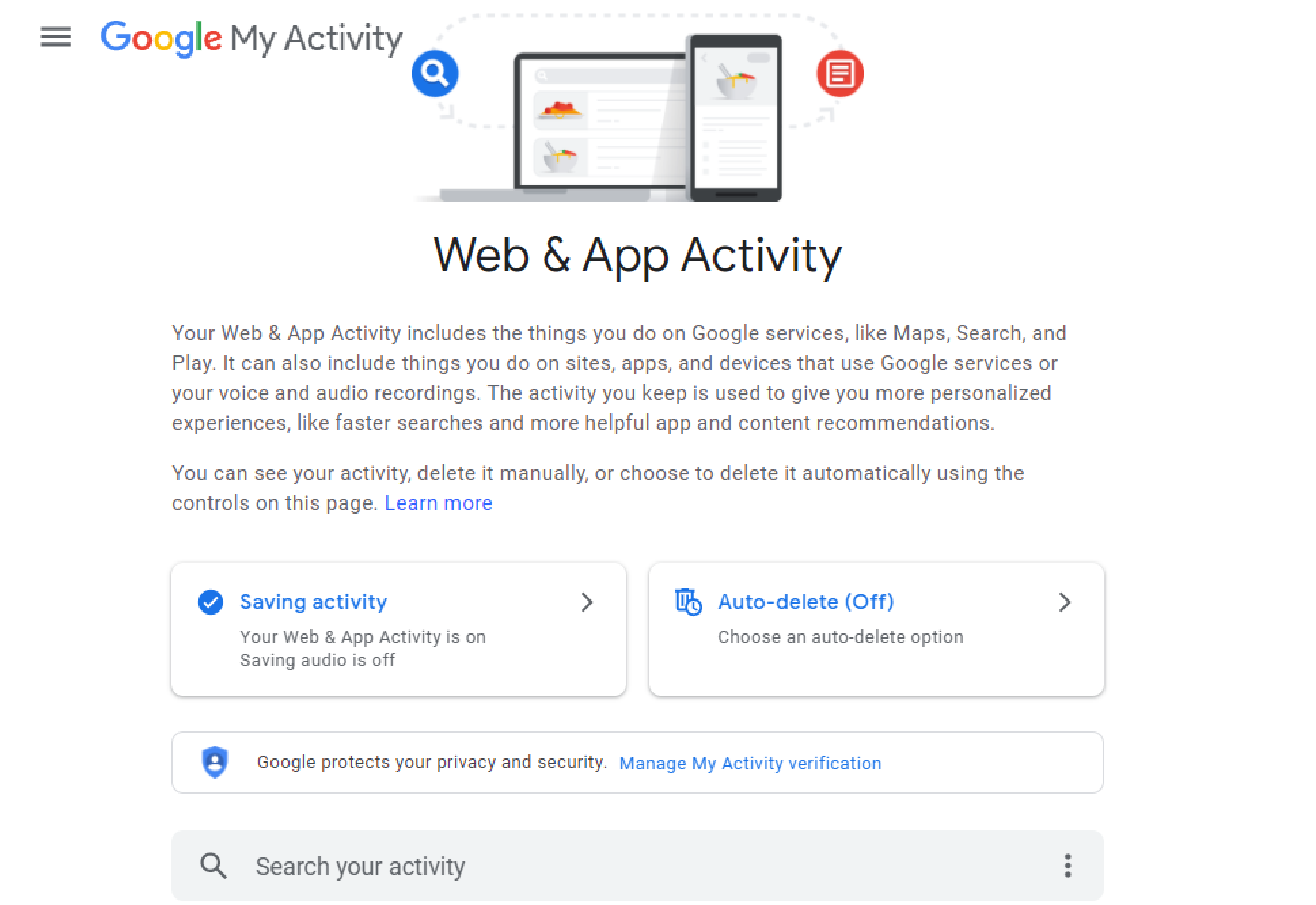
Phone

- Apps
- Websites
- Call-in numbers
- Texts

Financial Data

- Equipment purchase
- Real time tracking service charge

Google/Apple Data



Web & App Activity

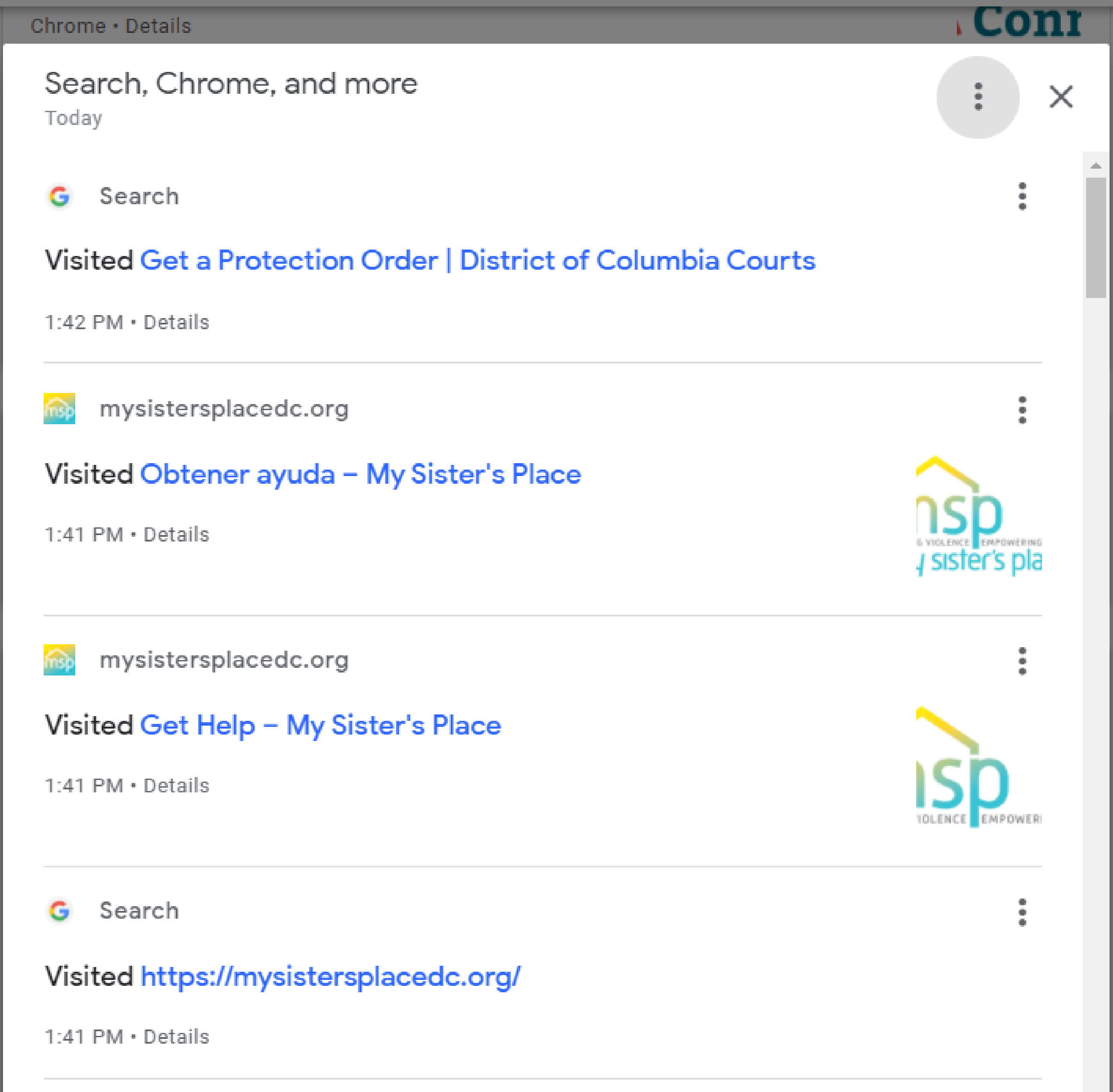
Your Web & App Activity includes the things you do on Google services, like Maps, Search, and Play. It can also include things you do on sites, apps, and devices that use Google services or your voice and audio recordings. The activity you keep is used to give you more personalized experiences, like faster searches and more helpful app and content recommendations.

You can see your activity, delete it manually, or choose to delete it automatically using the controls on this page. Learn more

✓ **Saving activity** ›
Your Web & App Activity is on
Saving audio is off

Auto-delete (Off) ›
Choose an auto-delete option

Google protects your privacy and security. Manage My Activity verification



Chrome • Details

Search, Chrome, and more

Today

Search

Visited Get a Protection Order | District of Columbia Courts

1:42 PM • Details

mysistersplacedc.org

Visited Obtener ayuda – My Sister's Place

1:41 PM • Details

mysistersplacedc.org

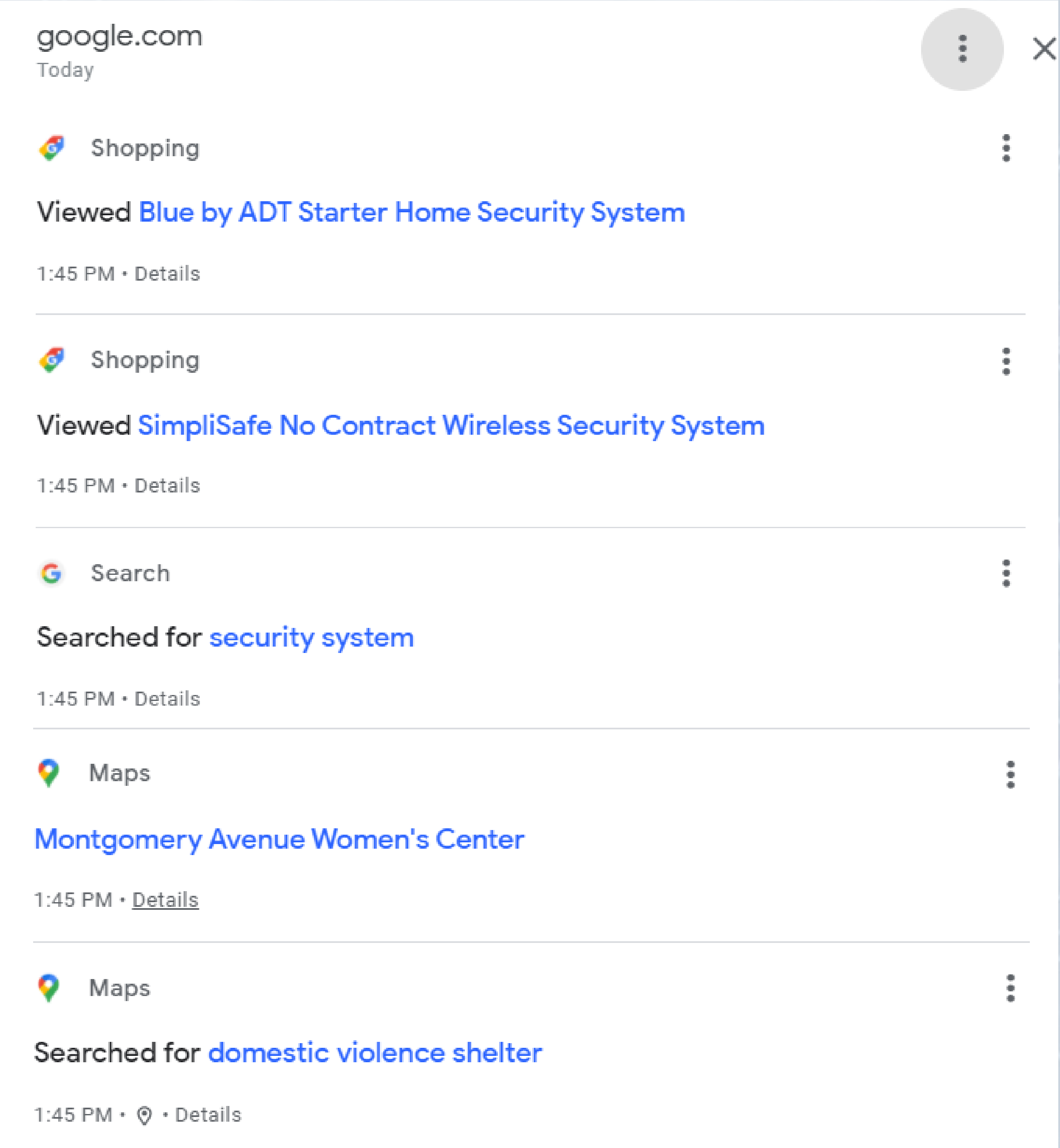
Visited Get Help – My Sister's Place

1:41 PM • Details

Search

Visited https://mysistersplacedc.org/

1:41 PM • Details



google.com
Today

Shopping

Viewed Blue by ADT Starter Home Security System

1:45 PM • Details

Shopping

Viewed SimpliSafe No Contract Wireless Security System

1:45 PM • Details

Search

Searched for security system

1:45 PM • Details

Maps

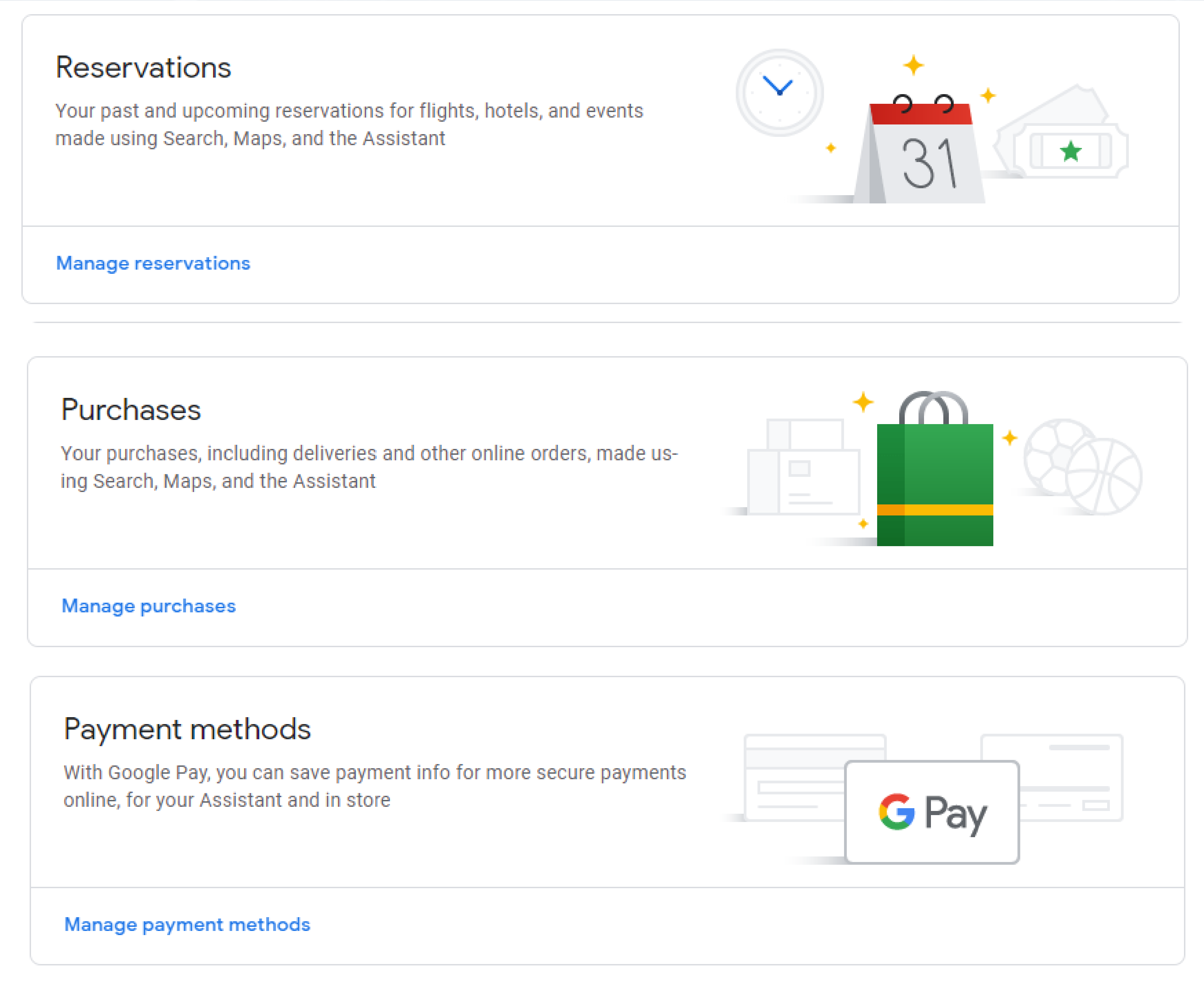
Montgomery Avenue Women's Center

1:45 PM • Details

Maps

Searched for domestic violence shelter

1:45 PM • • Details



Reservations

Your past and upcoming reservations for flights, hotels, and events made using Search, Maps, and the Assistant

Manage reservations

Purchases

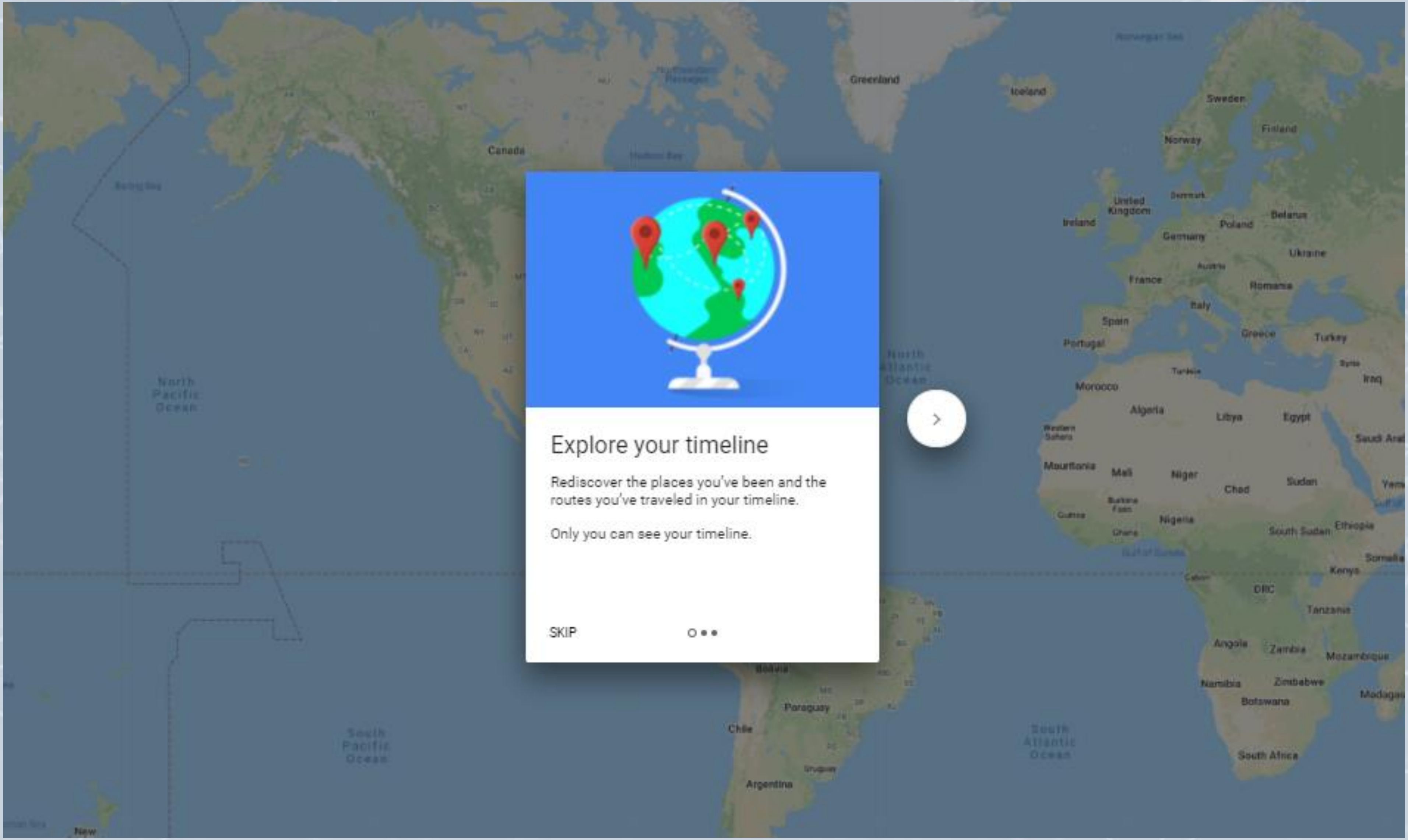
Your purchases, including deliveries and other online orders, made using Search, Maps, and the Assistant

Manage purchases

Payment methods

With Google Pay, you can save payment info for more secure payments online, for your Assistant and in store

Manage payment methods

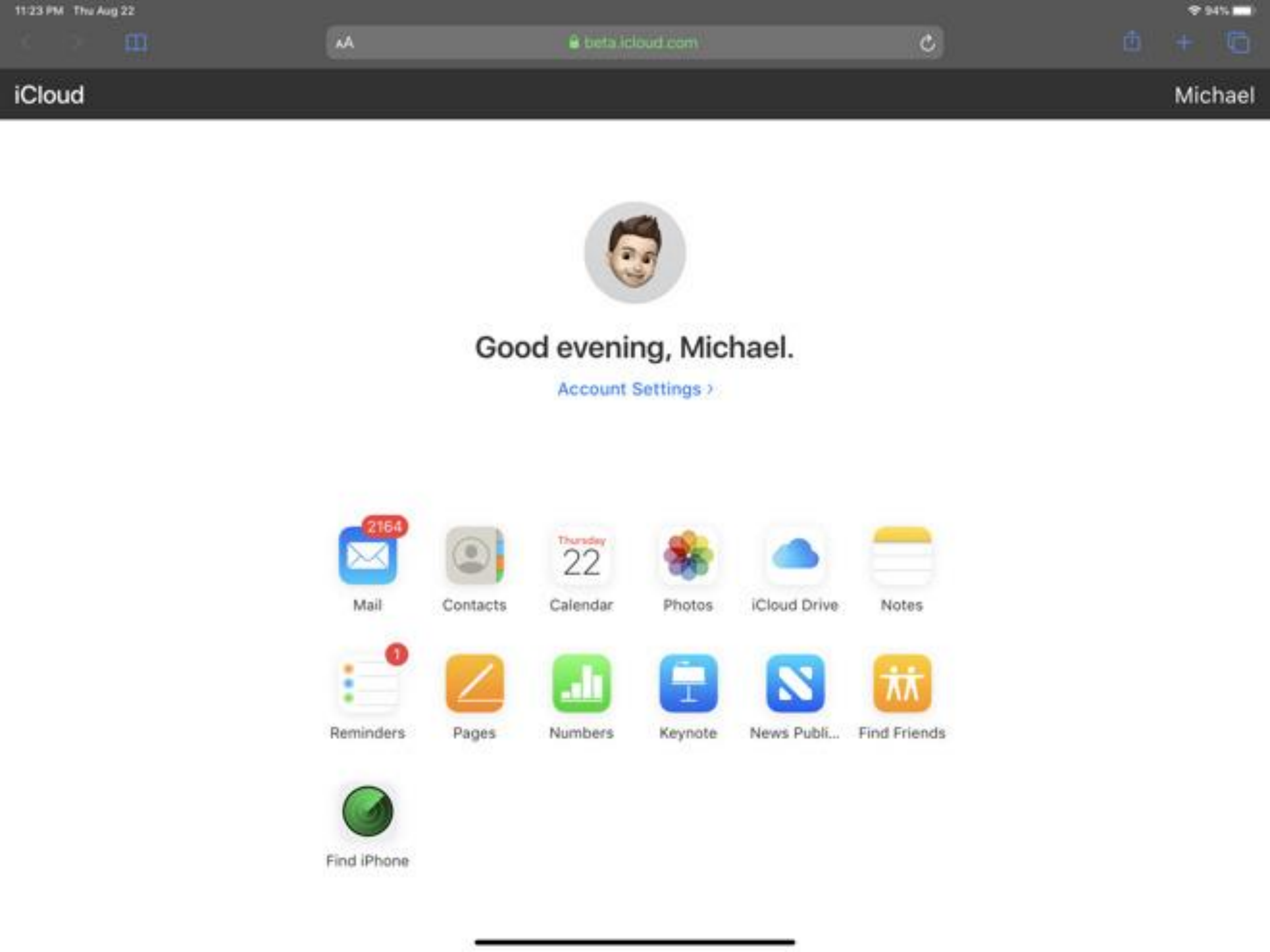


Explore your timeline

Rediscover the places you've been and the routes you've traveled in your timeline.

Only you can see your timeline.

SKIP ○ ● ●



Good evening, Michael.

Account Settings ›

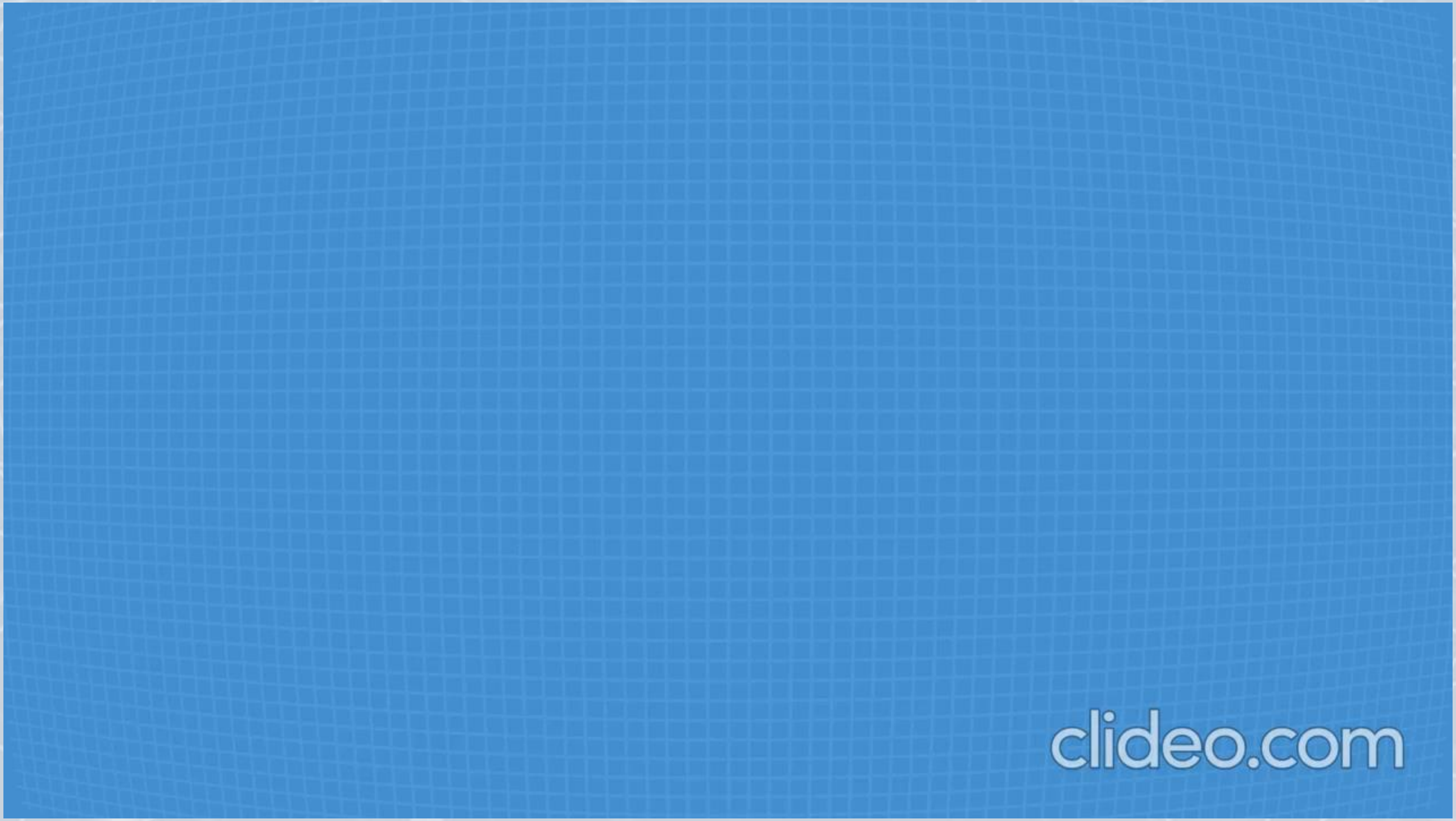
Stalkerware

SPARC STALKING PREVENTION, AWARENESS, AND RESOURCE CENTER

What is Stalkerware?

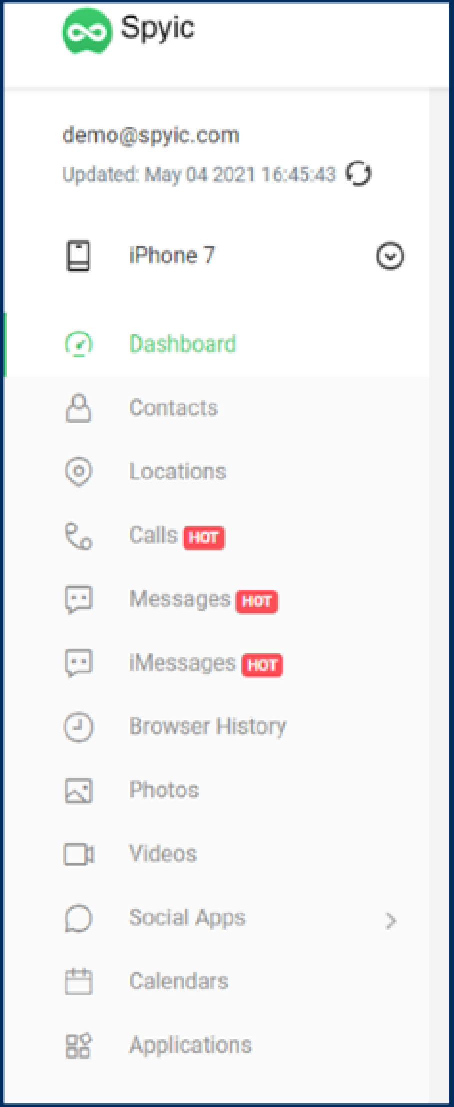
- Commercially available software used for spying
- Made for individual use
- Typically hides itself from the list of installed programs and does not display any activity notifications

COALITION AGAINST STALKERWARE



About Stalkerware

- Physical access to the device is almost always required for installation
- Can be on both Apple and Android devices, but more common on Android
- Best to assume all activities on device are being monitored



Spyic

demo@spyic.com

Updated: May 04 2021 16:45:43

iPhone 7

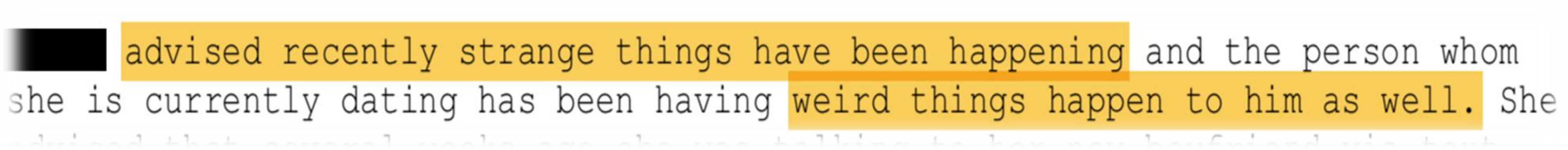
Minimizing Installation Risk

- Keep the device within reach at all times
- Keep device locked with hard-to-guess PIN
- Ensure screen locks after a short duration
- Don't enable device's auto-unlock feature when in range of home WiFi
- Install antivirus and perform regular device scans

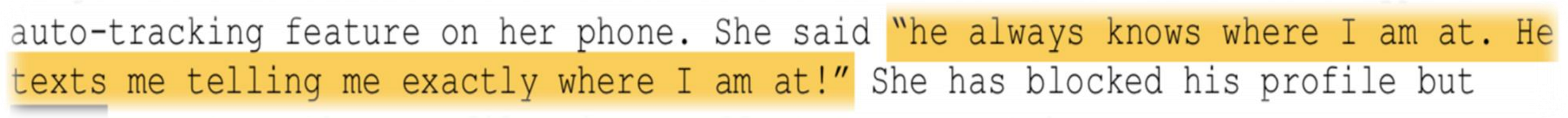
COALITION AGAINST STALKERWARE

Stalkerware: What You May Hear

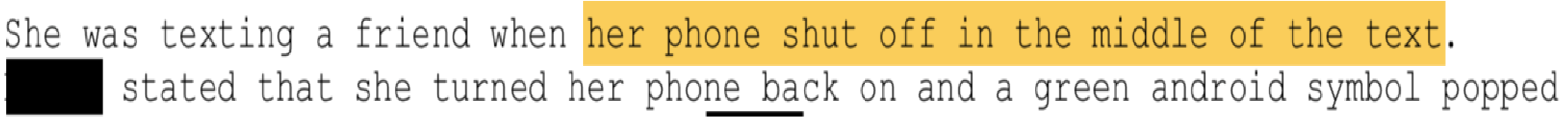
- "They hacked my phone."
- "They hacked my account/s: e-mail, Facebook, Instagram, Snapchat..."
- "They're reading my texts."
- "They are listening to my calls."
- "They seem to know everything I've done on my phone."
- "They know my passwords and logins, even though I just changed them."
- "They have and/or are referencing pictures of me I took on my phone."
- "They keep showing up where I am."



[redacted] advised recently strange things have been happening and the person whom she is currently dating has been having weird things happen to him as well. She



auto-tracking feature on her phone. She said "he always knows where I am at. He texts me telling me exactly where I am at!" She has blocked his profile but

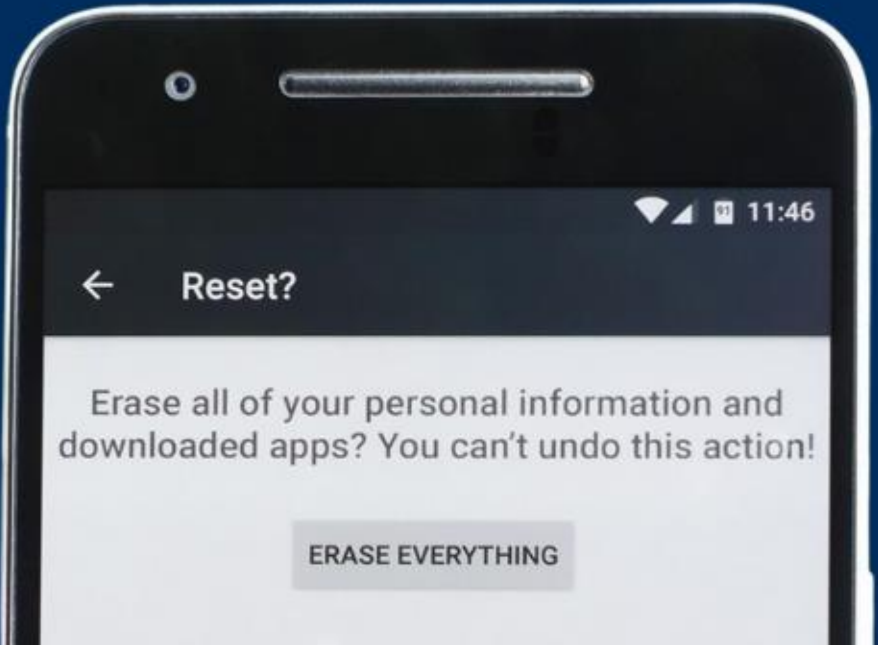


She was texting a friend when her phone shut off in the middle of the text. [redacted] stated that she turned her phone back on and a green android symbol popped

Removing Stalkerware

All actions may cause potential safety concerns!

- Factory reset
    - Note: this also destroys the evidence
- Change passwords on all apps/accounts when re-installed
- Antivirus can sometimes remove stalkerware



Erase all of your personal information and downloaded apps? You can't undo this action!

COALITION AGAINST STALKERWARE

Non-Stalkerware Possibilities

SHARING SETTINGS

- Phone login and password security
- Cloud/Account Backup
- Family sharing, "find my device"

ACCOUNT ACCESS

- Individual accounts: e-mail, social media, dating websites
- Smart device accounts
- Previously shared accounts

OTHER TOOLS

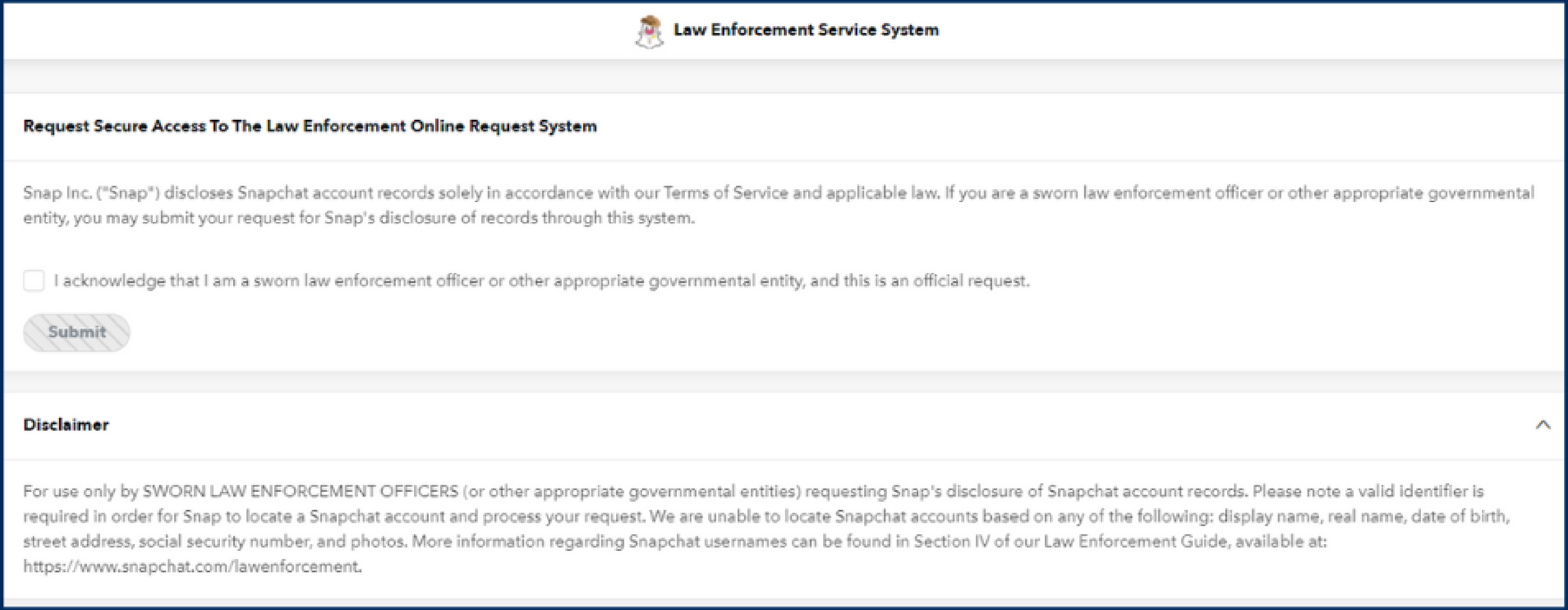
- Devices: GPS tracker, key logger, cameras, recording devices
- Friends, family, colleagues

Social Media & Dating Websites

Exploiting Social Media

- Gather information on the victim
  - Location
  - Plans
- Communicate
  - Post on victim's page
  - Post about the victim on their own or other's pages
- Create fake sites/Impersonation

Portals for Law Enforcement



Law Enforcement Service System

Request Secure Access To The Law Enforcement Online Request System

Snap Inc. ("Snap") discloses Snapchat account records solely in accordance with our Terms of Service and applicable law. If you are a sworn law enforcement officer or other appropriate governmental entity, you may submit your request for Snap's disclosure of records through this system.

□ I acknowledge that I am a sworn law enforcement officer or other appropriate governmental entity, and this is an official request.

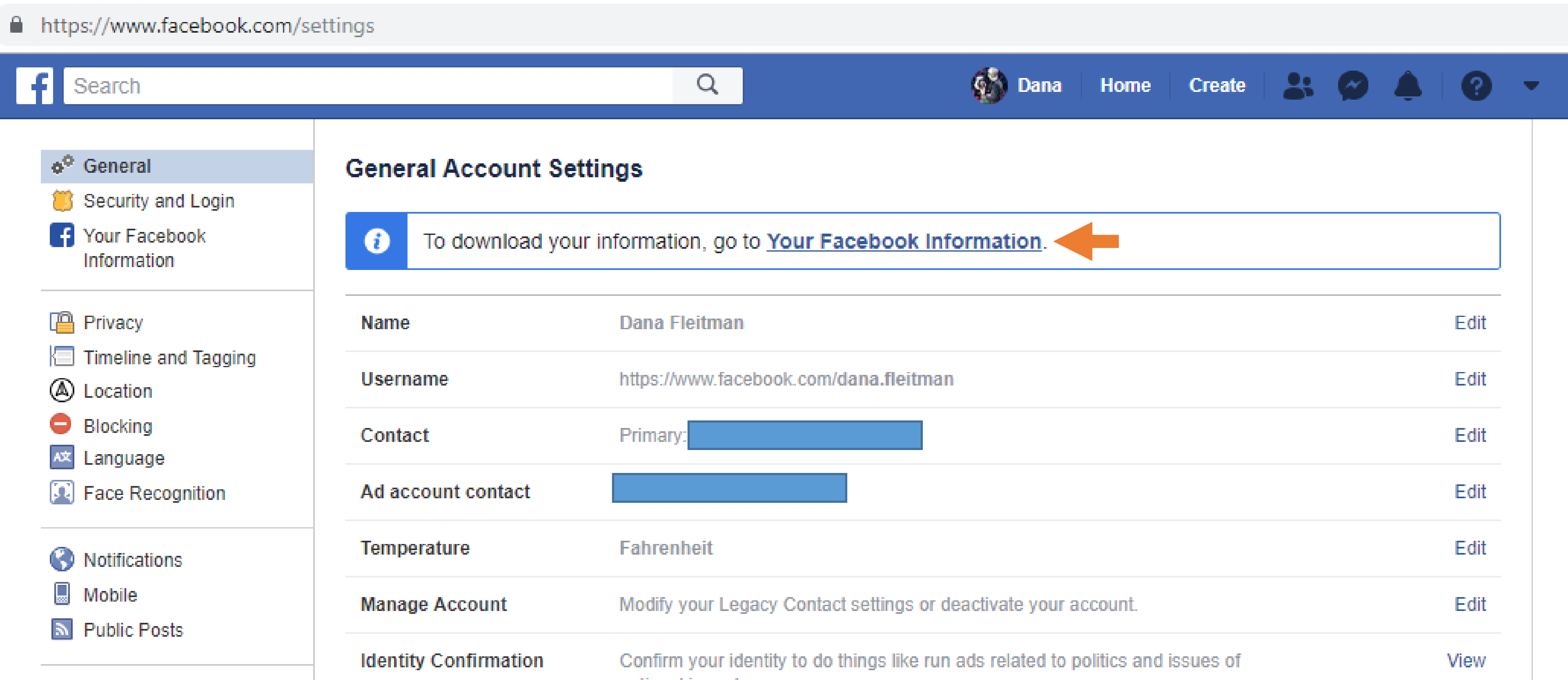
Disclaimer

For use only by SWORN LAW ENFORCEMENT OFFICERS (or other appropriate governmental entities) requesting Snap's disclosure of Snapchat account records. Please note a valid identifier is required in order for Snap to locate a Snapchat account and process your request. We are unable to locate Snapchat accounts based on any of the following: display name, real name, date of birth, street address, social security number, and photos. More information regarding Snapchat usernames can be found in Section IV of our Law Enforcement Guide, available at: https://www.snapchat.com/lawenforcement.

https://less.snapchat.com

Facebook Documentation

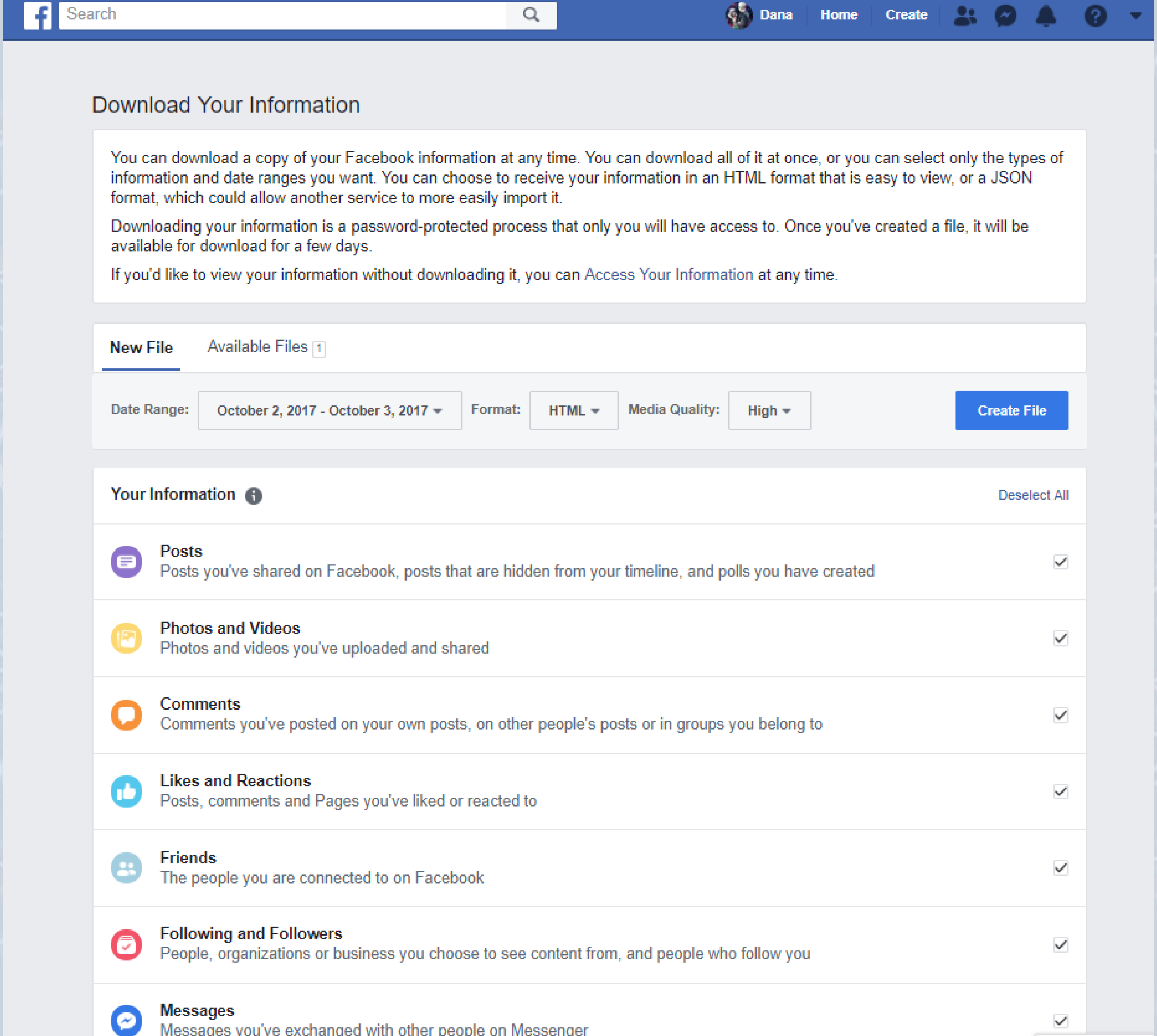
- Capture and save screenshots (PrntScrn)
- Some sites offer a “download your information” service in account settings



General Account Settings

To download your information, go to Your Facebook Information.

Name	Dana Fleitman	Edit
Username	https://www.facebook.com/dana.fleitman	Edit
Contact	Primary: [redacted]	Edit
Ad account contact	[redacted]	Edit
Temperature	Fahrenheit	Edit
Manage Account	Modify your Legacy Contact settings or deactivate your account.	Edit
Identity Confirmation	Confirm your identity to do things like run ads related to politics and issues of	View



Download Your Information

You can download a copy of your Facebook information at any time. You can download all of it at once, or you can select only the types of information and date ranges you want. You can choose to receive your information in an HTML format that is easy to view, or a JSON format, which could allow another service to more easily import it.

Downloading your information is a password-protected process that only you will have access to. Once you've created a file, it will be available for download for a few days.

If you'd like to view your information without downloading it, you can Access Your Information at any time.

Date Range: October 2, 2017 - October 3, 2017
Format: HTML
Media Quality: High

Your Information

Posts ☑
Posts you've shared on Facebook, posts that are hidden from your timeline, and polls you have created

Photos and Videos ☑
Photos and videos you've uploaded and shared

Comments ☑
Comments you've posted on your own posts, on other people's posts or in groups you belong to

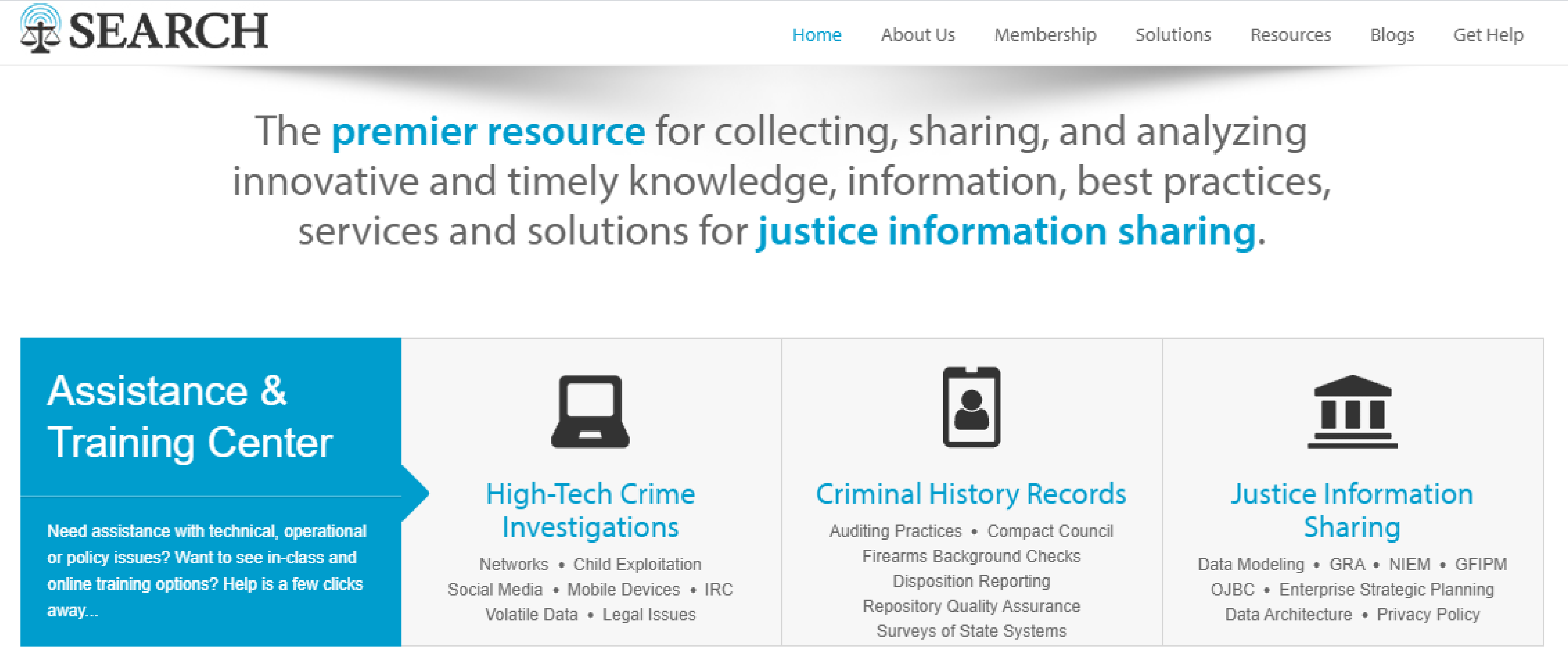
Likes and Reactions ☑
Posts, comments and Pages you've liked or reacted to

Friends ☑
The people you are connected to on Facebook

Following and Followers ☑
People, organizations or business you choose to see content from, and people who follow you

Messages ☑
Messages you've exchanged with other people on Messenger

Search.org



SEARCH

The **premier resource** for collecting, sharing, and analyzing innovative and timely knowledge, information, best practices, services and solutions for **justice information sharing**.

Assistance & Training Center

Need assistance with technical, operational or policy issues? Want to see in-class and online training options? Help is a few clicks away...

High-Tech Crime Investigations

Networks • Child Exploitation
Social Media • Mobile Devices • IRC
Volatile Data • Legal Issues

Criminal History Records

Auditing Practices • Compact Council
Firearms Background Checks
Disposition Reporting
Repository Quality Assurance
Surveys of State Systems

Justice Information Sharing

Data Modeling • GRA • NIEM • GFIPM
OJBC • Enterprise Strategic Planning
Data Architecture • Privacy Policy

Nonconsensual Image Distribution

SPARC STALKING PREVENTION, AWARENESS, AND RESOURCE CENTER

16% OF VICTIMS 18-24 YEARS OLD

REPORT THAT THE STALKER SHARED NUDE, SEMI-NUDE, AND/OR SEXUALLY EXPLICIT PHOTOS OR VIDEOS OF THEM

Brady, P. Q., & Woodward Griffin, V. (2019). The Intersection of Stalking and Sexual Assault Among Emerging Adults: Unpublished Preliminary Results. mTurk Findings, 2018.

First Order Motion Model for Image Animation

Aliaksandr Siarohin Stéphane Lathuilière Sergey Tulyakov

Elisa Ricci Nicu Sebe

Advances in Neural Information Processing Systems, 2019

Resources for Non-Consensual Distribution of Intimate Images

Cyberrightsproject.com

Cybercivilrights.org
For victims: 1-844-878-CCRI

Cagoldberglaw.com

Dmcadefender.com

Copybyte.com

Smart Devices

Smart Home Control
lights
lock
temperature
security
network
music
checklist
electric

Public Data

Find Yourself…

* FastPeopleSearch.com

* TruePeopleSearch.com

* PeopleSearchNow.com

Internet Privacy Handbook

SAFE SHEPHERD

* https://safeshepherd.com/handbook/privacy-basics

Responding to Stalking through Technology

Technology & Stalking: Big Picture

* **Believe victims.** Offenders can misuse technology a variety of creative ways to access, contact, and monitor their victims.
* **This technology is out there – and it's easy to use.** Offenders don't have to be particularly "tech savvy" to terrorize victims through technology.
* **Build knowledge on privacy/sharing settings across applications and devices.** Sharing settings/defaults are often not intuitive.
* **Ask specific questions about offender contact and knowledge.** This can better help you collect evidence and safety plan.
* **Consider both evidence preservation and victim safety.** See if the victim has access to a safer device.
* **Charge relevant technology-related crimes** (when appropriate and applicable).

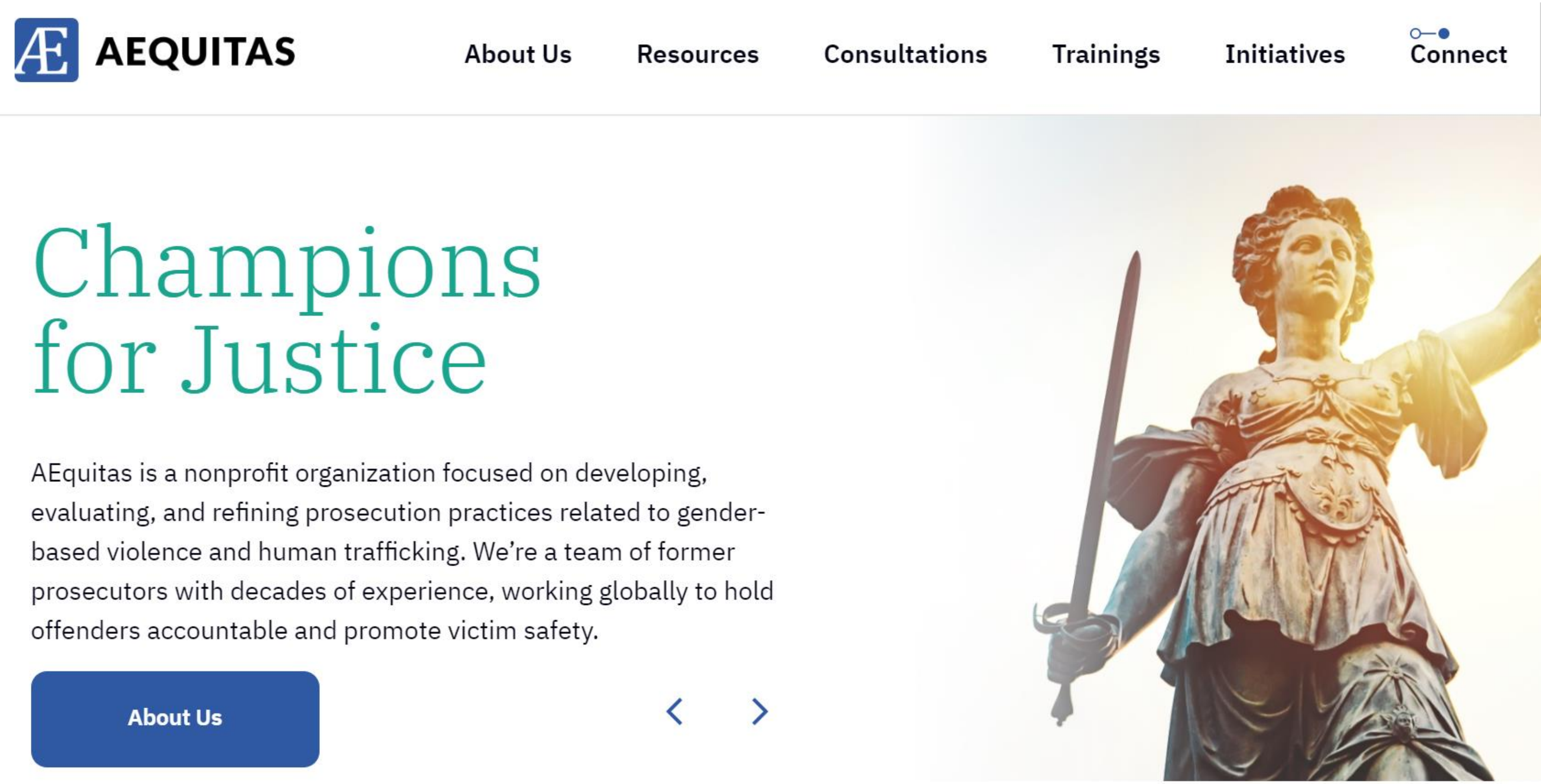
Safety Planning and Technology

Victims may consider:

- Secure passwords
- Hard-to-guess security questions
- Enable 2-factor authentication
- Use a second, safer device when/if possible
- Learn about settings and location-sharing defaults, set these intentionally
- Be mindful of smart device and social media usage

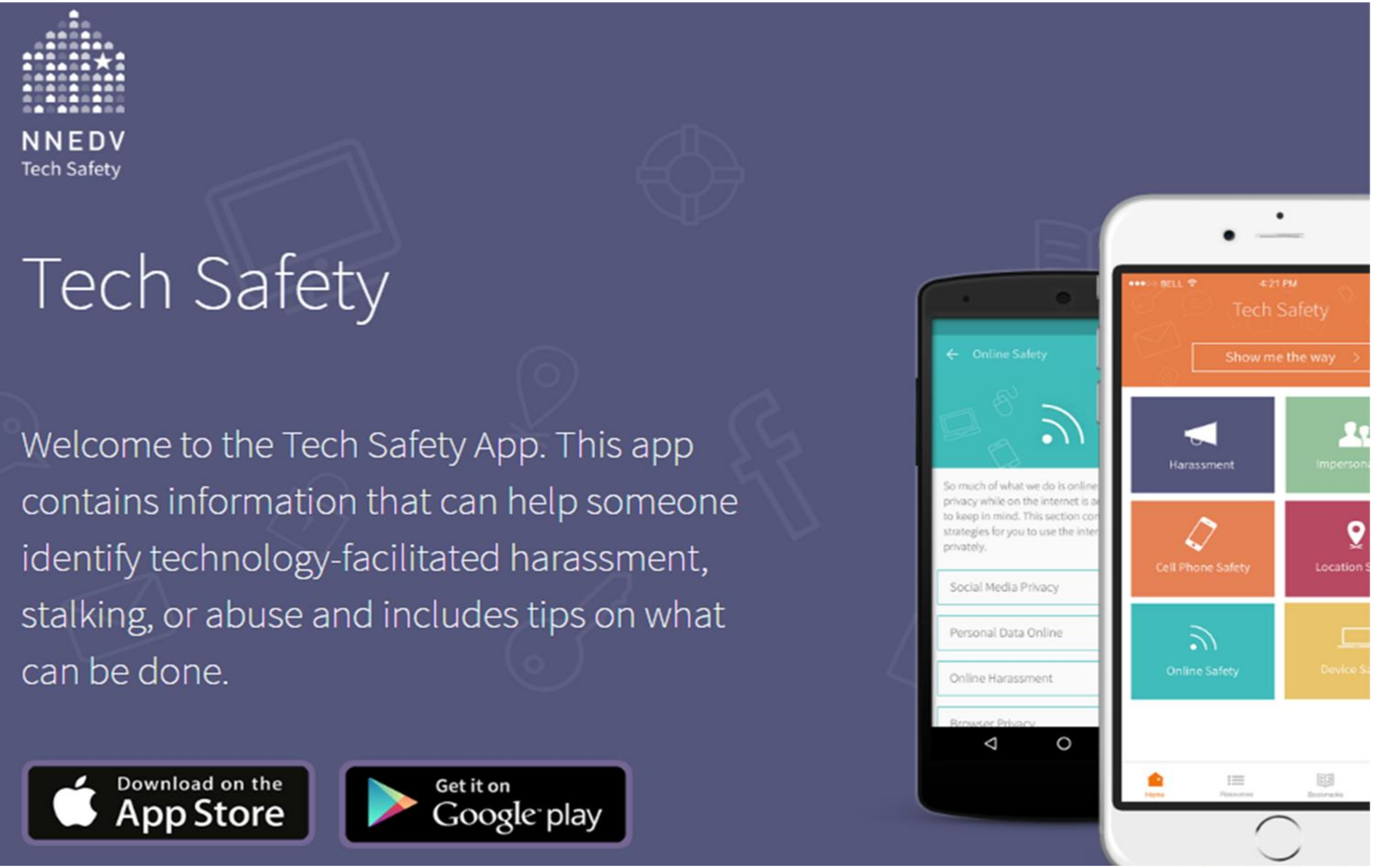
STALKING INCIDENT AND BEHAVIOR LOG

Date	Time	Description of Incident	Location of Incident (physical location, technology used, online platform)	Witness Name(s) (attach address and phone number)	Evidence Attached? (photos, video, screenshots, items, etc.)	Report Made To (name, office/org, badge or identification #)



Champions for Justice

AEquitas is a nonprofit organization focused on developing, evaluating, and refining prosecution practices related to gender-based violence and human trafficking. We're a team of former prosecutors with decades of experience, working globally to hold offenders accountable and promote victim safety.

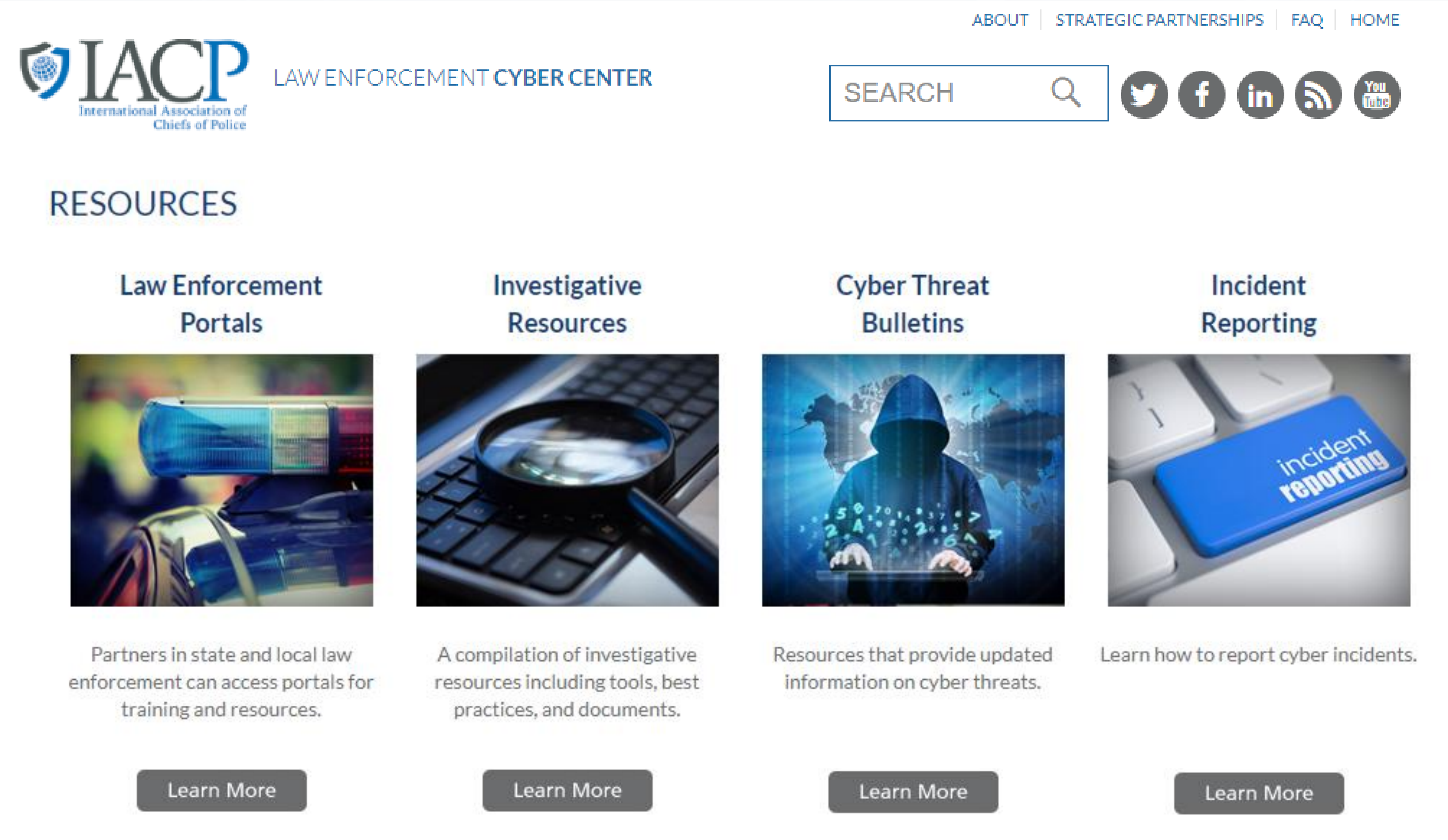


NNEDV
Tech Safety

Tech Safety

Welcome to the Tech Safety App. This app contains information that can help someone identify technology-facilitated harassment, stalking, or abuse and includes tips on what can be done.

SPARC



IACP International Association of Chiefs of Police

LAW ENFORCEMENT **CYBER CENTER**

RESOURCES

Law Enforcement Portals

Partners in state and local law enforcement can access portals for training and resources.

Investigative Resources

A compilation of investigative resources including tools, best practices, and documents.

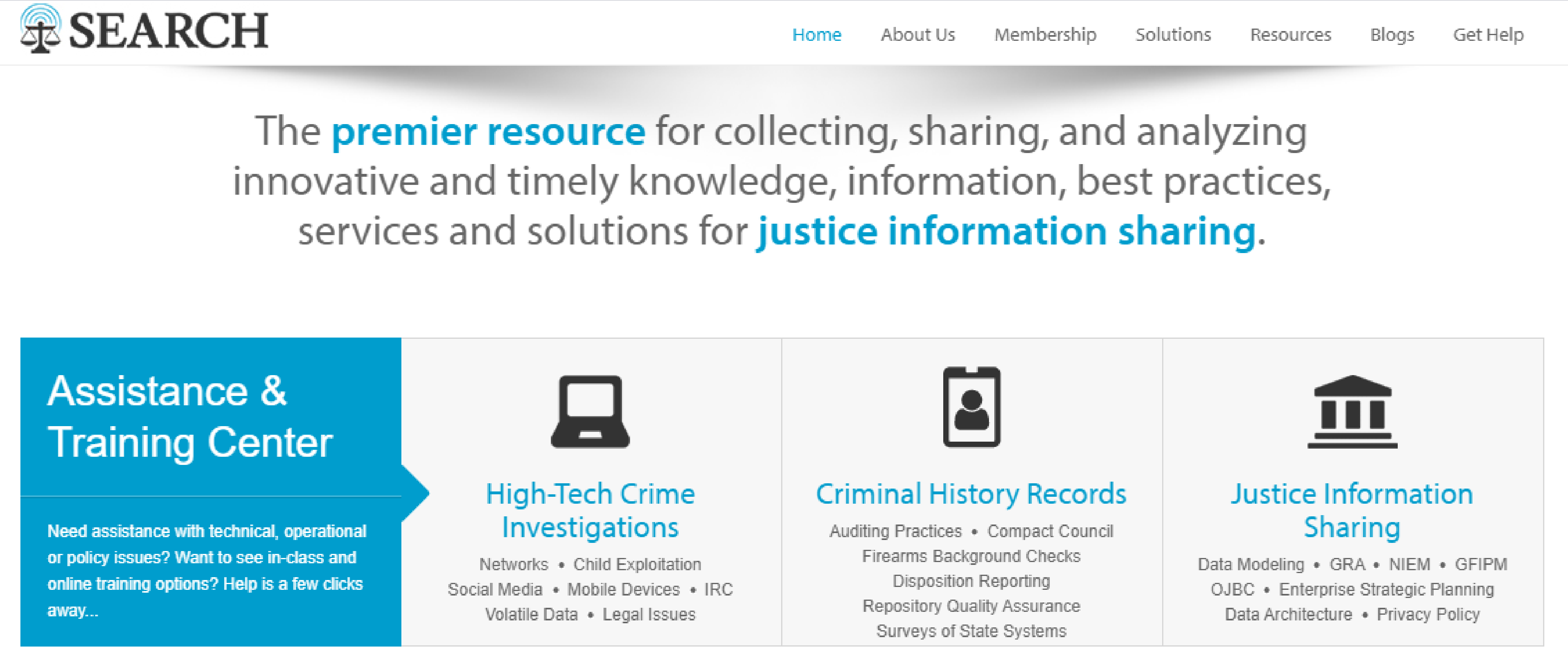
Cyber Threat Bulletins

Resources that provide updated information on cyber threats.

Incident Reporting

Learn how to report cyber incidents.

Search.org



SEARCH

Home About Us Membership Solutions Resources Blogs Get Help

The **premier resource** for collecting, sharing, and analyzing innovative and timely knowledge, information, best practices, services and solutions for **justice information sharing**.

Assistance & Training Center

Need assistance with technical, operational or policy issues? Want to see in-class and online training options? Help is a few clicks away...

High-Tech Crime Investigations

Networks • Child Exploitation
Social Media • Mobile Devices • IRC
Volatile Data • Legal Issues

Criminal History Records

Auditing Practices • Compact Council
Firearms Background Checks
Disposition Reporting
Repository Quality Assurance
Surveys of State Systems

Justice Information Sharing

Data Modeling • GRA • NIEM • GFIPM
OJBC • Enterprise Strategic Planning
Data Architecture • Privacy Policy

For Victims

VictimConnect resource center

Confidential referrals for crime victims ☎ 855-4-VICTIM

JANUARY IS

NATIONAL STALKING AWARENESS MONTH

KNOW IT. NAME IT. STOP IT.

How are you planning to spread the word?

LEARN ✳ TEACH ✳ SHARE ✳ REFLECT

StalkingAwareness.org

www.StalkingAwareness.org

*Practitioner guides

*Training modules

*Victim resources

*Webinars

@FollowUsLegally

Sign Up for our Newsletter!

Dana Fleitman M.A.Ed.H.D.

Training & Awareness Specialist

SPARC STALKING PREVENTION, AWARENESS, AND RESOURCE CENTER

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StalkingAwareness.org

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