

# **Risky Business: High-Risk Users You May Not Have Thought of**

**Eva Galperin**  
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# Who the hell are you?

**Eva Galperin, Director of Cybersecurity at the Electronic Frontier Foundation**

**<https://www.eff.org>**

**[eva@eff.org](mailto:eva@eff.org)**

**@evacide**

**Co-Founder of the Coalition Against Stalkerware**

**<https://www.stopstalkerware.org>**

# Greatest Hits

**Syrian malware, Vietnamese malware (Ocean Lotus), Operation Manul, Dark Caracal**

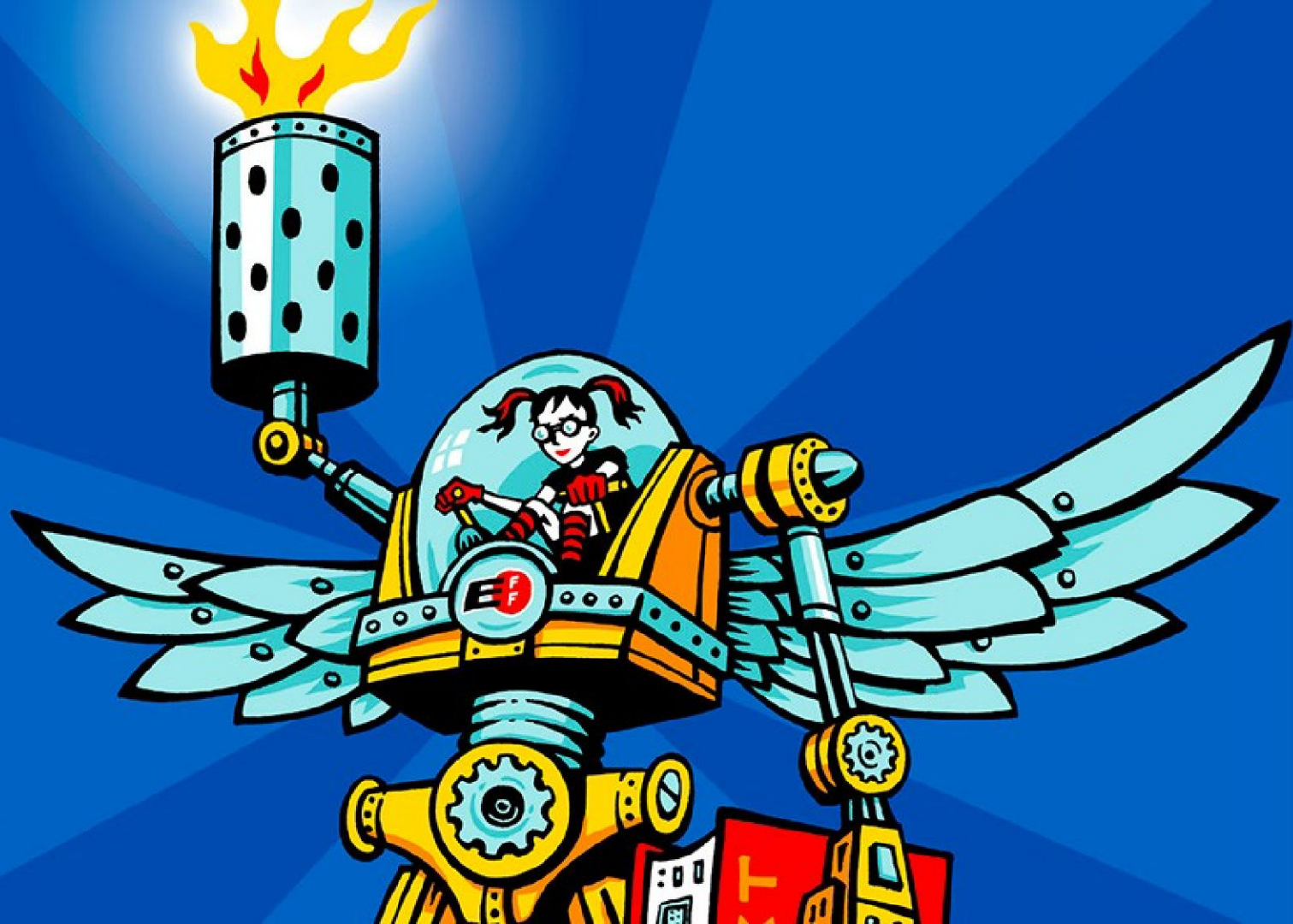
**Phish for the Future**

**Surveillance Self Defense: <https://ssd.eff.org>**

**Security Education Companion: <https://sec.eff.org>**

**Stalkerware**

**Physical trackers**





# CYBERSECURITY



Application



Information



Network



Operational



Encryption



Access control



End-user education



Disaster recovery









NATIONAL INTELLIGENCE

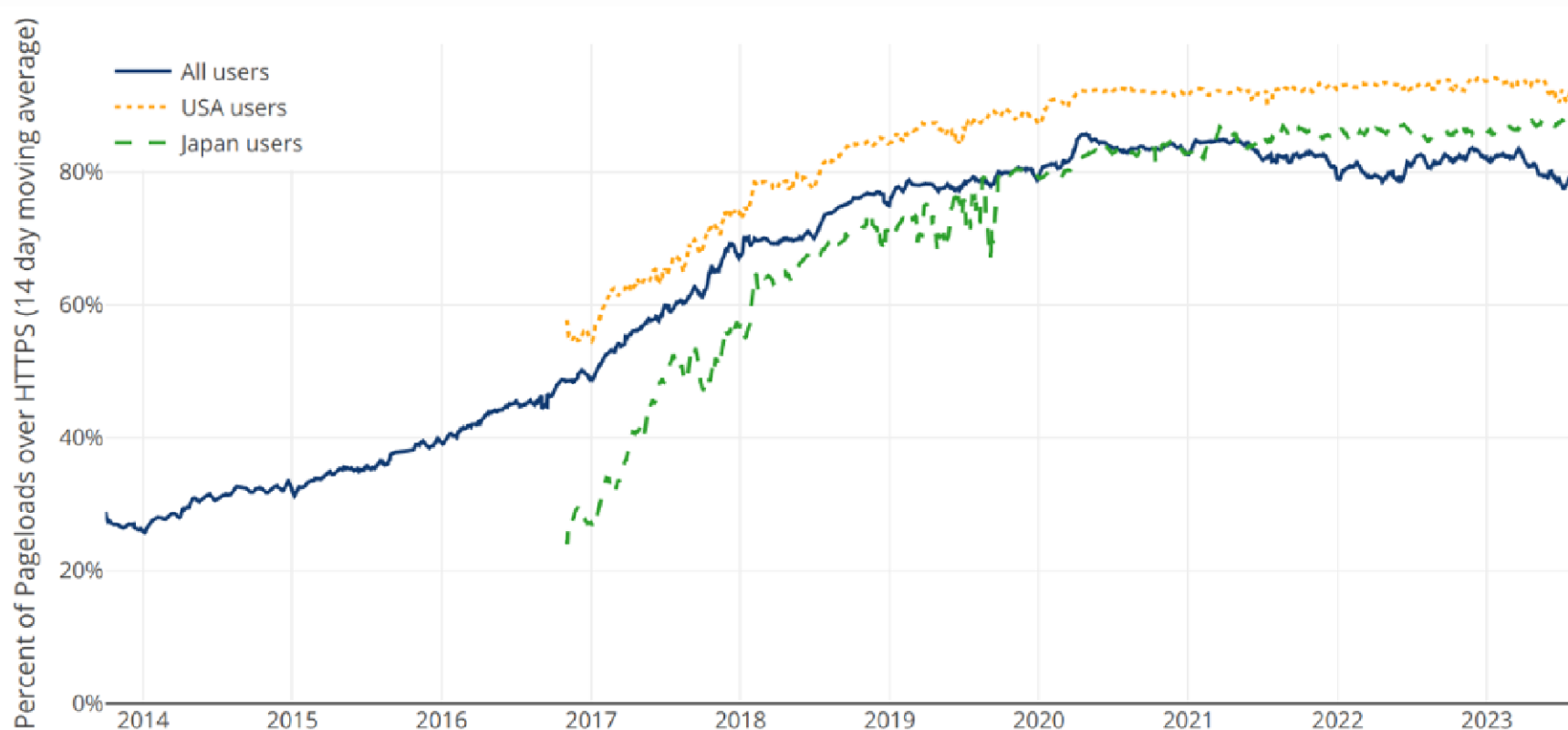


ALL  
YOUR  
DATA

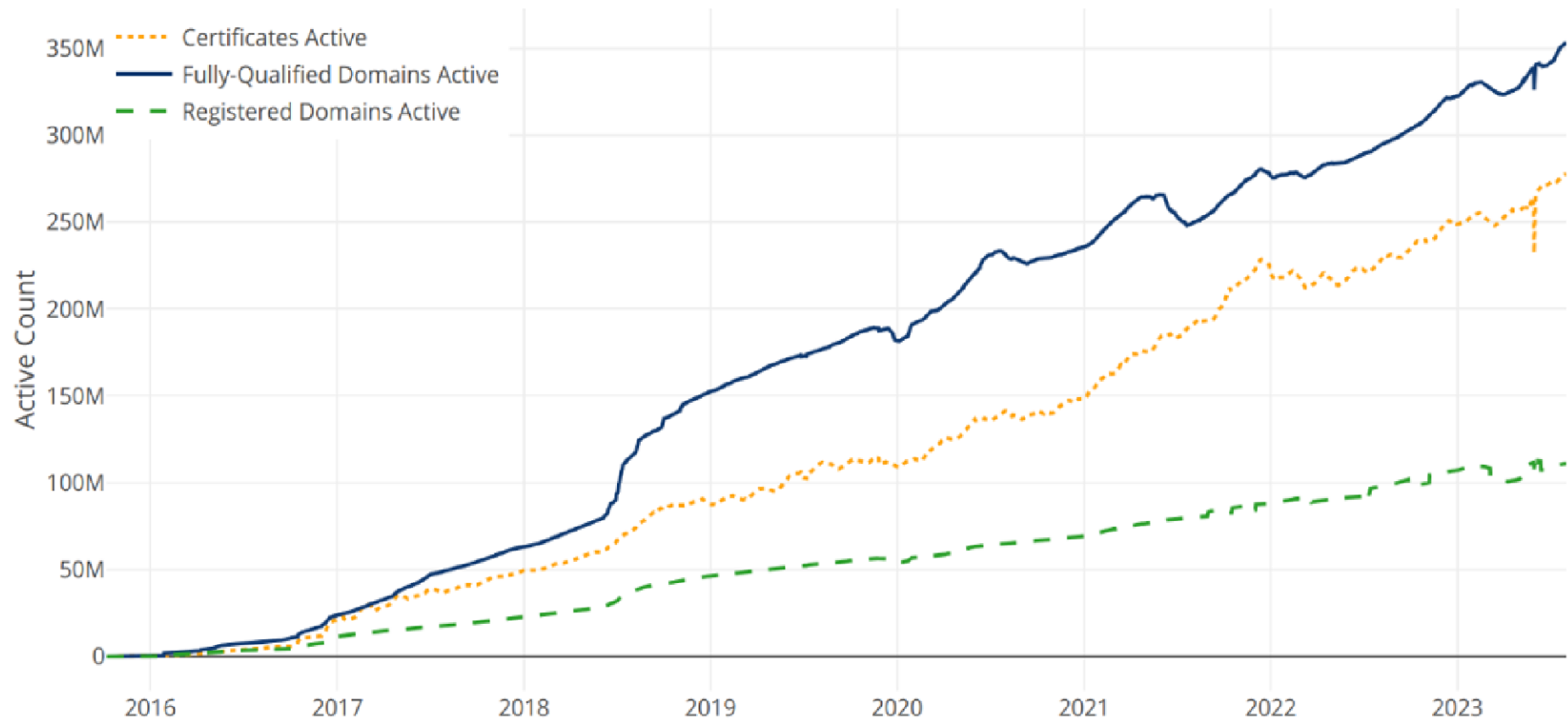


# Percentage of Web Pages Loaded by Firefox Using HTTPS

(14-day moving average, source: [Firefox Telemetry](#))



# Let's Encrypt Growth









# Anti Hacker



## We are here to save the world

AntiHacker.sytes.net

Anti Hacker is on Facebook.

To connect with Anti Hacker, sign up for Facebook today.



**Anti Hacker**

28 likes · 33 talking about this

Computers/Technology  
Auto-Protect & Auto-Detect & Security & Quick scan and analysing

About Photos Likes

Highlights

Also On

<http://antihacker.sytes.net/index.html>

Activity Recent

Anti Hacker shared a link. July 27

Does HTTPS really improve Internet security compared to HTTP? How do we know that we have complete Internet Security on our devices? Get the answers in the following TechBlog post!  
<http://antihacker.sytes.net/index.html>

Subject: Oxfam Conference

Date: Fri, 20 Dec 2013 15:10:33 +0700

From: Andrew Oxfam <[andrew.oxfam@gmail.com](mailto:andrew.oxfam@gmail.com)>

To: Andrew Oxfam <[andrew.oxfam@gmail.com](mailto:andrew.oxfam@gmail.com)>

Dear all,

We would like to invite you to join Asia Conference

Please download information about the conference and the invitation in the link

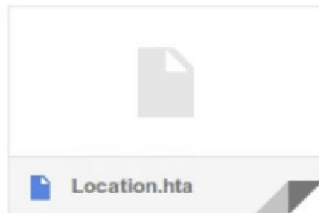
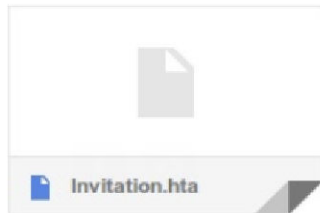
<http://www.oxfam.org/en/invitation><<https://drive.google.com/file/d/0B7fMhZc0wI0OeTJpZmViQXU4YVE/edit?usp=sharing>>

<http://www.oxfam.org/en/location><<https://drive.google.com/file/d/0B7fMhZc0wI0ORkRkaU53M0dqYW8/edit?usp=sharing>>

Best Regards

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## 2 Attachments



# **WE GIVE SOME GOOD ADVICE**

**Turn on the highest level of 2FA that is available/appropriate/you are comfortable using**

**Apply your security updates in a timely fashion and let me know if the update breaks functionality that you need**

# **WE GIVE BAD ADVICE**

**Yubikeys for everything.**

**Just don't click on "strange links."**

**Just don't open "strange documents."**

**Here, do this phishing training.**

**Always apply the latest security update for everything right away.**

**And if you can't do it, you just don't deserve security**



# dangerzone

**Dangerous: epa-memo.pdf**

Save safe PDF

epa-memo-safe.pdf

Save as...

Open safe document after converting, us

LibreOffice Draw

OCR document, language

English

Update container

**Convert to Safe Document**

<https://dangerzone.rocks/>



Sensitive Content Warning

Off >

Detect nude photos and videos before they are viewed on your iPhone, and receive guidance to help make a safe choice. Apple does not have access to the photos or videos. [Learn more...](#)

Analytics & Improvements >

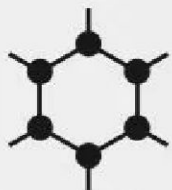
Apple Advertising >

App Privacy Report >

SECURITY

Lockdown Mode

Off >



GrapheneOS





The New York Times

## ***Sheikh Set Israeli Spyware on Ex-Wife in Custody Battle, Court Says***

The ruler of Dubai was found to have hacked the phones of his former wife, a Jordanian princess, and of her lawyers. One of those targeted is a member of the House of Lords in Britain.

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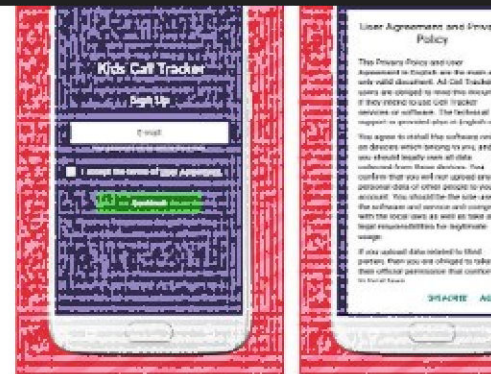
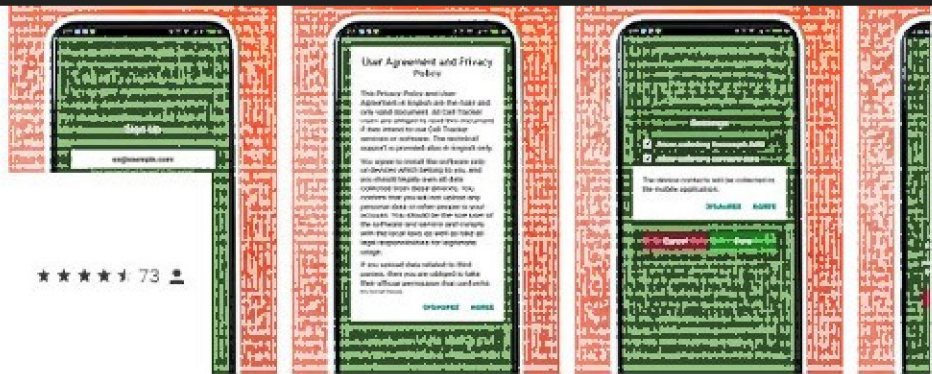
# Phone Cell Tracker

Har Tools

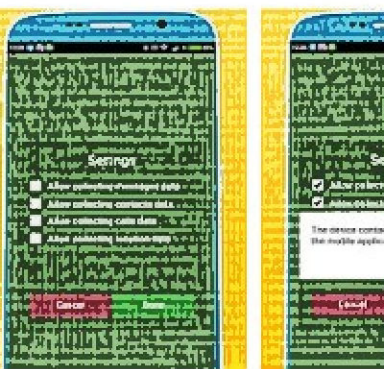
PEGI 3

This app is compatible with your device.

★★★★★ 73



Add to Wishlist



# Mobile Tracking

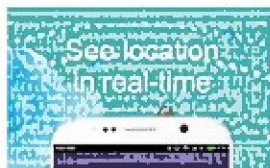
AntWat Tools

★★★★★ 892

PEGI 3

This app is compatible with your device.

Add to Wishlist



# SMS Tracker

TheHar Tools

PEGI 3

This app is compatible with your device.



# The Close Access Problem

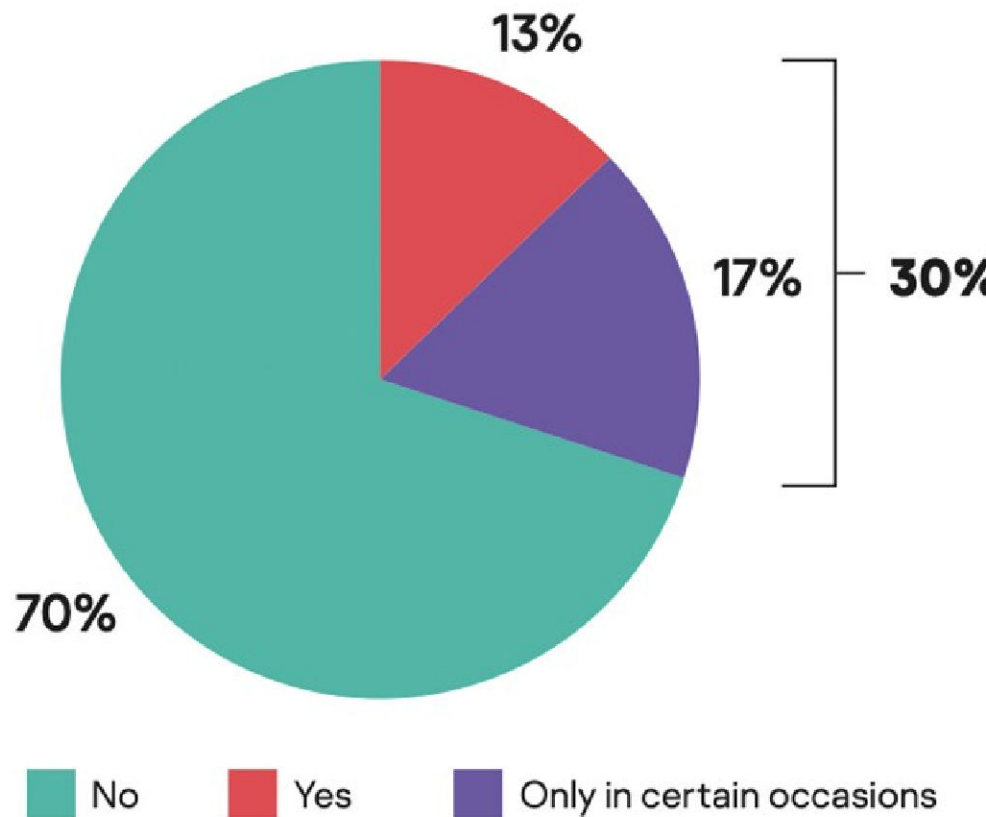
**Our apps and devices are not designed with the domestic abuse threat model in mind.**

**Many abusers coerce their victims into sharing their passwords. This can happen repeatedly.**

**Abusers often have unsupervised physical access to devices, sometimes for extended periods of time.**

**We assume password + physical access == legitimate access to the device.**

# Is it ok to monitor your partner without their knowledge?



## Cheating by the numbers...

One of the unpleasant truths most married individuals are blissfully ignorant of is the surprisingly high occurrence of infidelity & extramarital affairs.

According to a study by Joan D. Atwood & Limor Schwartz, published in 2002, by the *Journal of Couple & Relationship Therapy*, 45-55% of married women and 50-60% of married men engage in extramarital sex at some time or another during their relationship. If that is not alarming enough, another study puts the average nonpaternity rate at above 3.3%, or in other words, 33 children in every thousand are not fathered by the man everybody thinks they are...



The past two decades has made infidelity more accessible than ever mostly because of the ascent of two majorly disruptive technologies: online social networks and mobile phones.

Up to 90% of marital affairs may include the use of a mobile phone or email as a preferred means for communication.

Good news is that technology can also be used to detect & reveal infidelity.





Kaspersky Internet Security

**Privacy alert**

This app may be used to compromise your personal data, for example by eavesdropping on your calls, reading your email and text messages, determining your location, or intercepting your communications on social networks.



a20911f85741ed0f96cb4b075b7a...  
/storage/0C21-11EE

DELETE

QUARANTINE

SKIP



STALKERWARE

## How to protect against stalkerware, a murky but dangerous mobile threat

Posted: October 9, 2019 by [Wendy Zamora](#)

Last updated: October 8, 2019

### ABOUT THE AUTHOR



**Wendy Zamora** 

Editor-in-Chief, Malwarebytes  
Labs

Wordsmith. Card-carrying journalist.

Lover of meatballs.

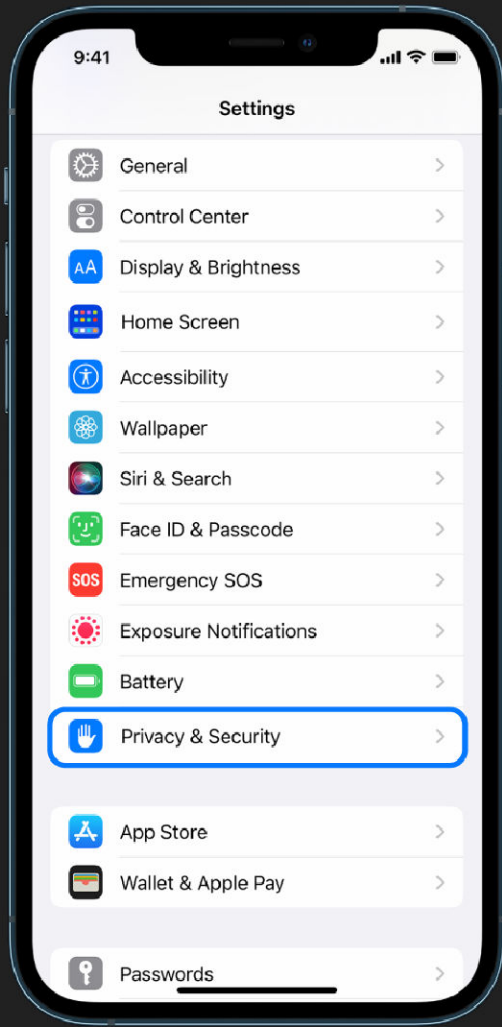
The table below shows the results for of the respective AV products on 20 selected stalkerware apps for Android.

Detection of Stalkerware Apps on Android										
Testcase	Avast	Avira	Bitdefender	ESET	F-Secure	G Data	Kaspersky	Malwarebytes	NortonLifeLock	Trend Micro
Stalkerware 1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 6	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 7	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 8	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 9	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Stalkerware 10	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Stalkerware 11	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Stalkerware 12	✓	✓	✓	✓	✓	✓	✓	✓	✗	✓
Stalkerware 13	✓	✓	✓	✓	✓	✓	✓	✗	✓	✓
Stalkerware 14	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stalkerware 15	✓	✗	✓	✓	✗	✓	✓	✓	✗	✓
Stalkerware 16	✗	✗	✓	✓	✗	✓	✓	✓	✗	✓
Stalkerware 17	✗	✗	✓	✓	✗	✓	✓	✓	✗	✗
Stalkerware 18	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗
Stalkerware 19	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗
Stalkerware 20	✓	✗	✗	✗	✗	✓	✗	✗	✗	✗
<i>Detection Rate</i>	85%	70%	85%	85%	70%	100%	85%	80%	50%	80%

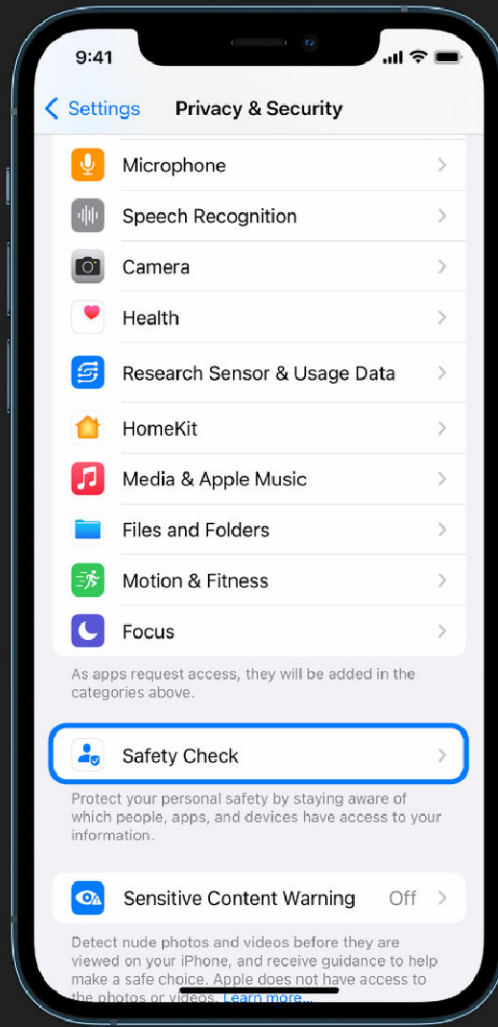
Key to symbols in table:    ✓ Stalkerware detected    ✗ Stalkerware not detected



# Settings



# Safety Check





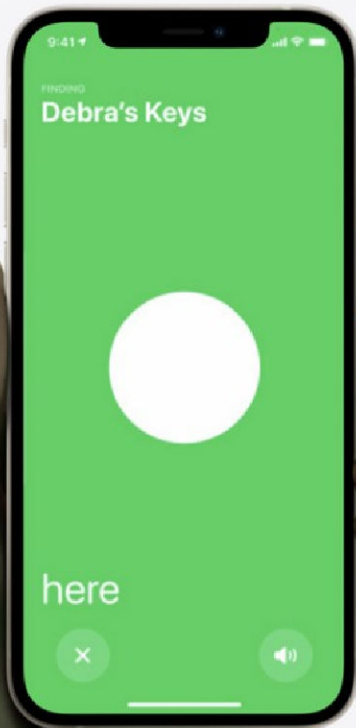


# Personal Trackers Just Went Mainstream

# The Appeal



Hey Siri,  
find my  
keys



Alexa, find  
my bag





# The Problem

Hey Siri,  
find my EX

# WHAT'S THE IMPACT?

1. **More access and increased awareness**
2. **Unaware victims**
3. **Vast networks=long-range tracking**

# **LONG RANGE TRACKING**

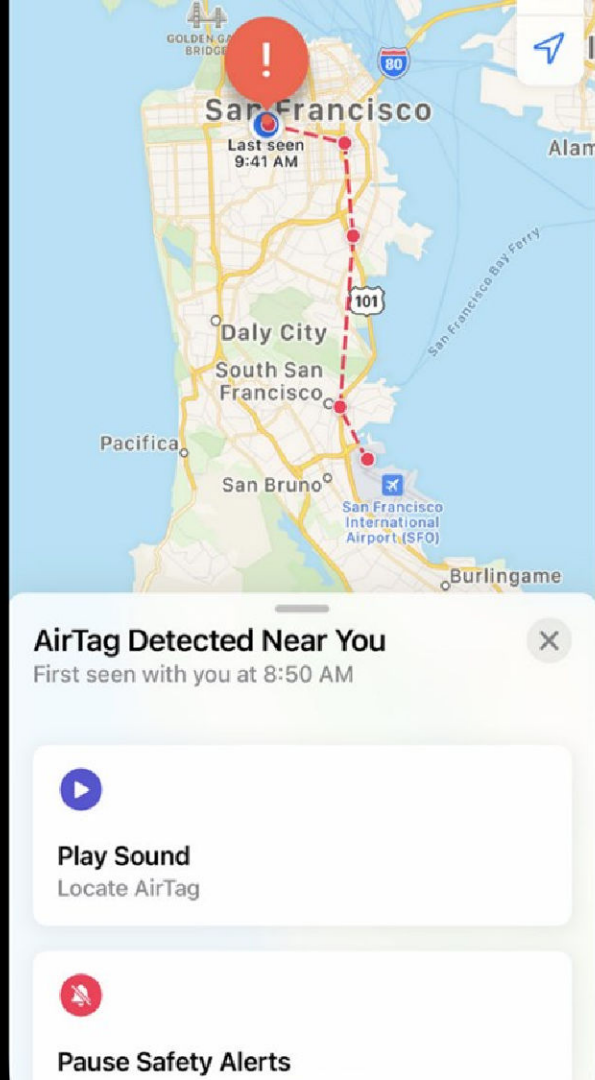


**Get by with a little help from  
hundreds of millions of friends.**



# ALERTS!

- **iPhone**
  - **Pop-Up Notice**
  - **Sound Alert**
  
- **Android**
  - **No Pop-Up Notice**
  - **Sound Alert**





# AIRTAG EXAMPLE



- **APPLE**
- **ANDROID**
- **RESET LOOPHOLE!**

IN THE KNOW.

## Woman claims she found a bone-chilling item in her purse after a night out: 'A new thing for ... women to worry about'

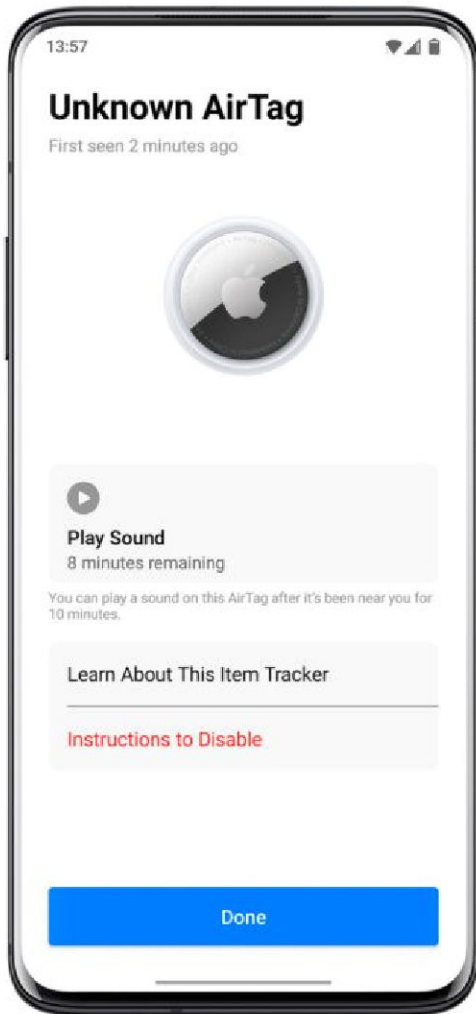
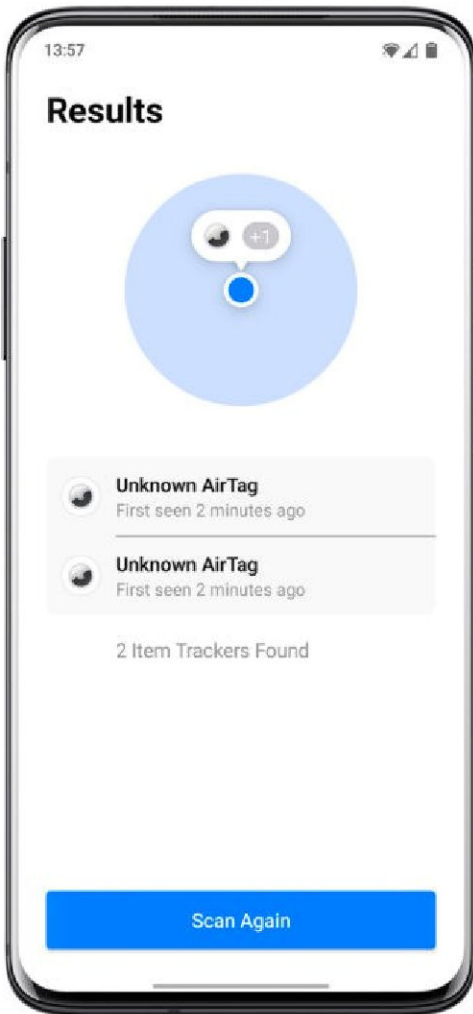
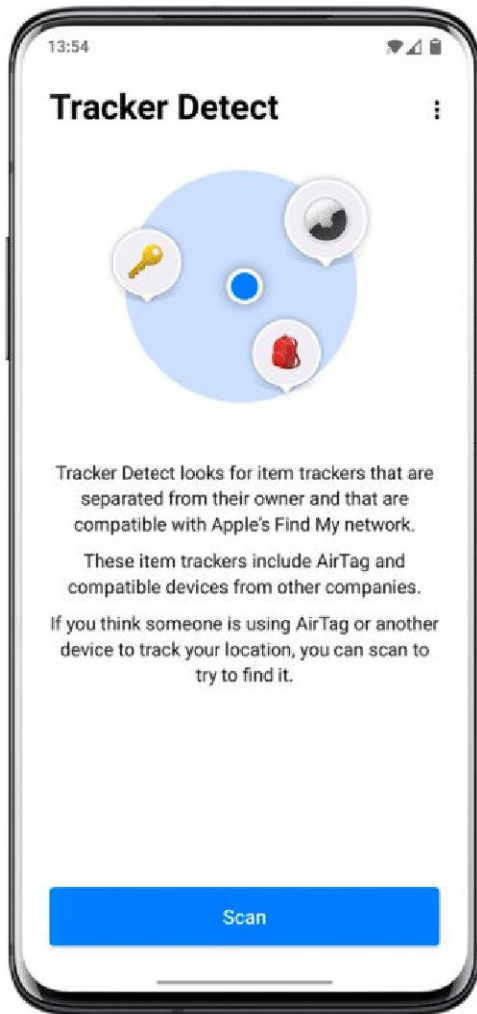
STALKING

## Houston woman says ex used 'Tile' device to stalk her repeatedly

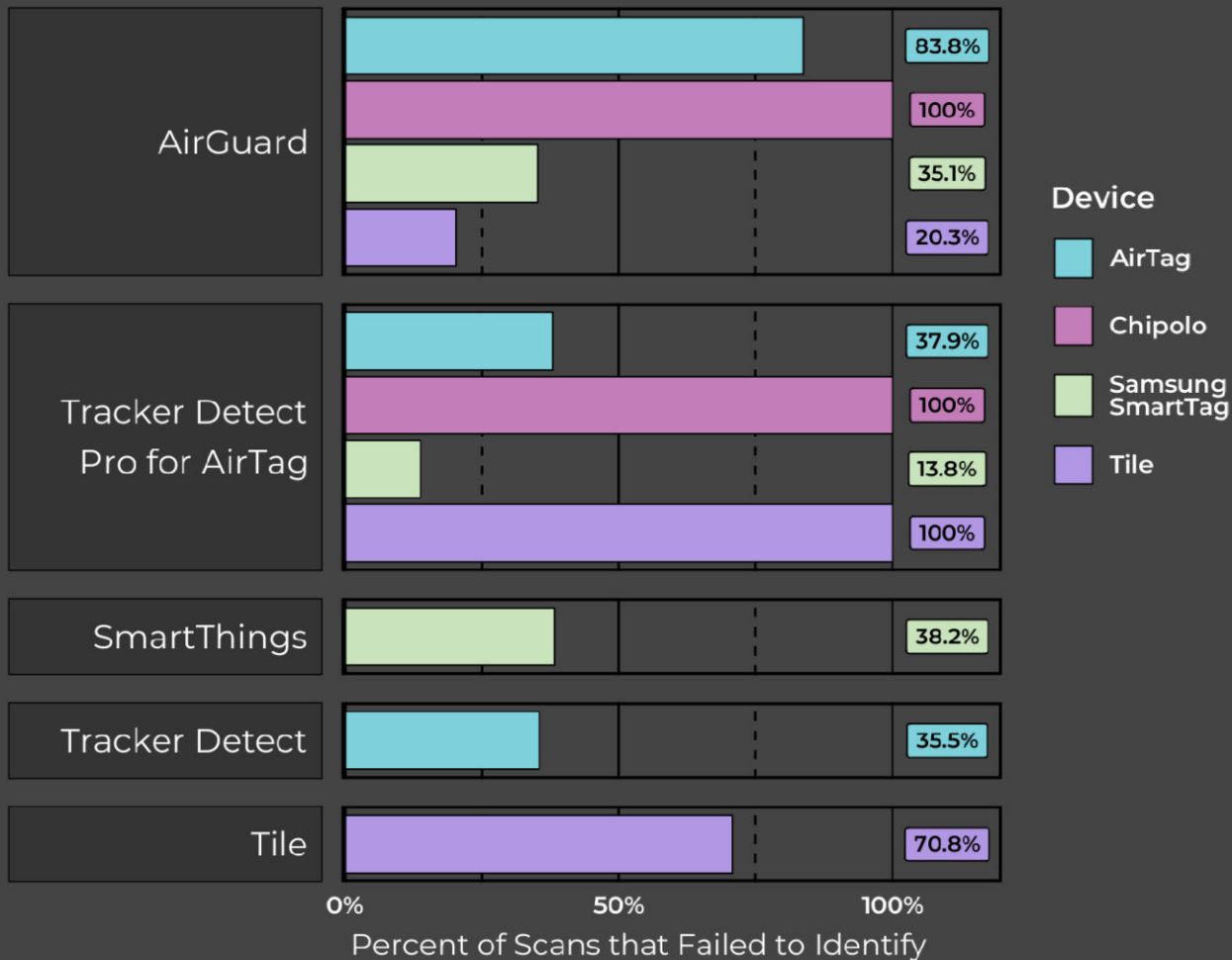


By Jessica Willey

Friday, July 6, 2018



# App Performance: How Often Were Trackers Missed?



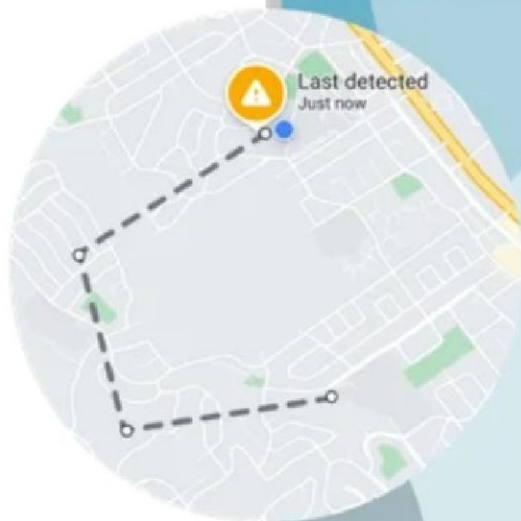


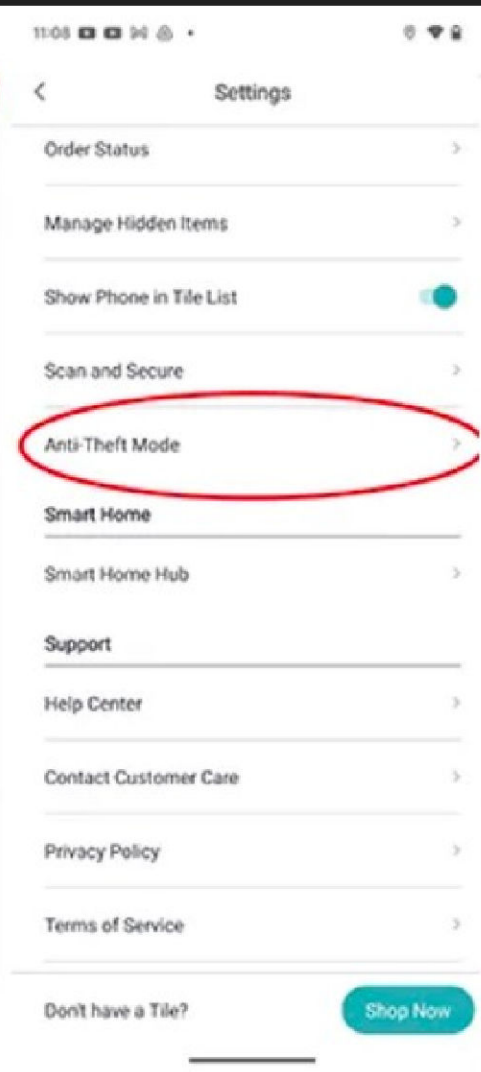
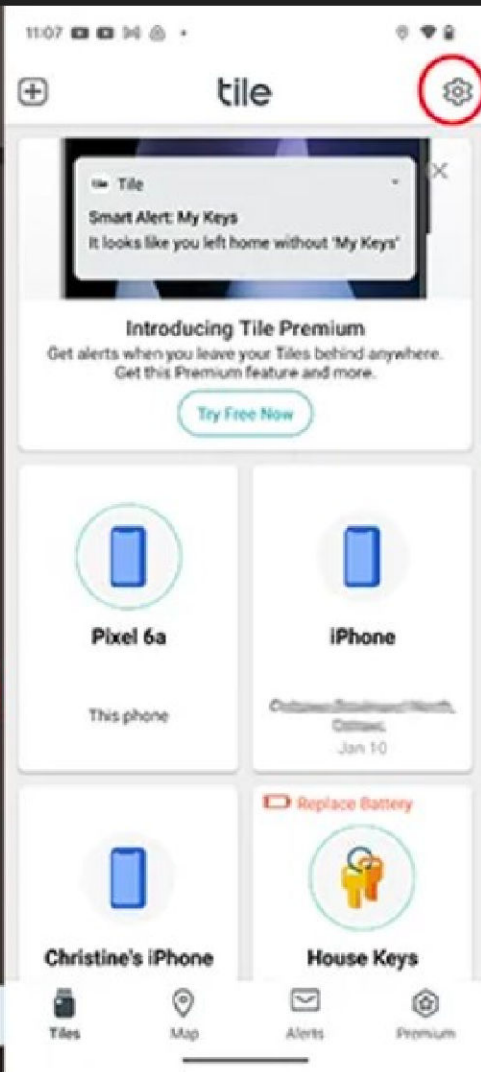
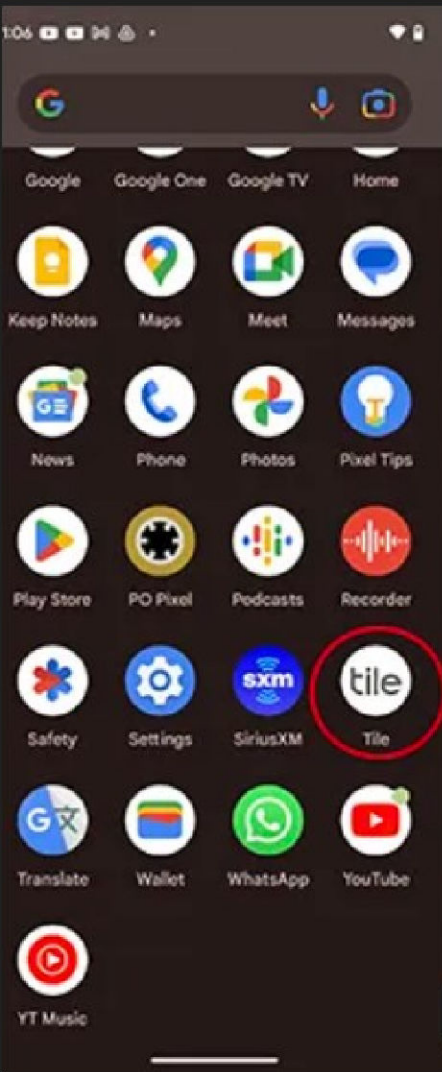
Unknown tracker alerts • now

### Tracker traveling with you

Unknown tracker detected. The owner of the tracker can see its location.

[More info](#)







# **Where is the physical tracker detection problem headed?**

**Lawsuits in the US**

**Standards-making discussions in the IETF and IEEE**

**More police training**

**PEOPLE ARE MORE IMPORTANT THAN THINGS**





When people talk about time traveling to the past, they often worry about radically changing the present by doing something small, but nobody in the present thinks they can radically change the future by doing something small.

showerthoughts

**QUESTIONS?**