



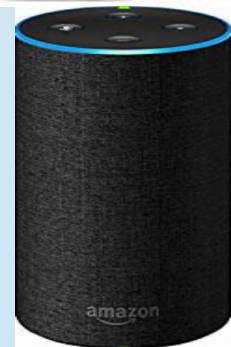
LPR



ring

# Privacy is Power: You Have None

Howard Fosdick © 2024



Nest Cam Indoor security camera  
Plug-in-and-go security.

The Nest Cam Indoor security camera is designed to help you look after your home and family – even when you're away.



@2024L 21 17-3.7.2 5/24



Credits: manufacturers of the products shown

BUY NOW

This is



licensed...

- Distribute this talk
- But do not alter it
- Turn Off Recording Devices

Full Transcript for this talk is here --

[https://rexxinfo.org/howard\\_fosdick\\_articles/Privacy\\_Seminar\\_Transcript.pdf](https://rexxinfo.org/howard_fosdick_articles/Privacy_Seminar_Transcript.pdf)



*Thank you!*

These Slides: [https://rexxinfo.org/howard\\_fosdick\\_articles/Privacy\\_Seminar\\_Slides.pdf](https://rexxinfo.org/howard_fosdick_articles/Privacy_Seminar_Slides.pdf)

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# Who am I ?

## Independent Computer Consultant

- Databases & Systems
- Author of books & many articles
- Thinker



Courtesy: Amazon

# Agenda

- I. What is Privacy ?**
- II. Technologies**
- III. Gov't Surveillance**
- IV. Solutions**

**Focus is U.S. privacy problems**



Courtesy: LibreOffice

# What is Privacy?

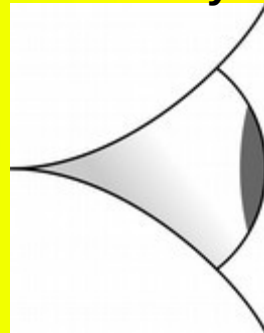
1980s 1990s

2000s Today

## Analog

## Digital

Surveillance  
Society



YOU

**Communications:**

- texting, email
- phone, voip
- documents

**Activities:**

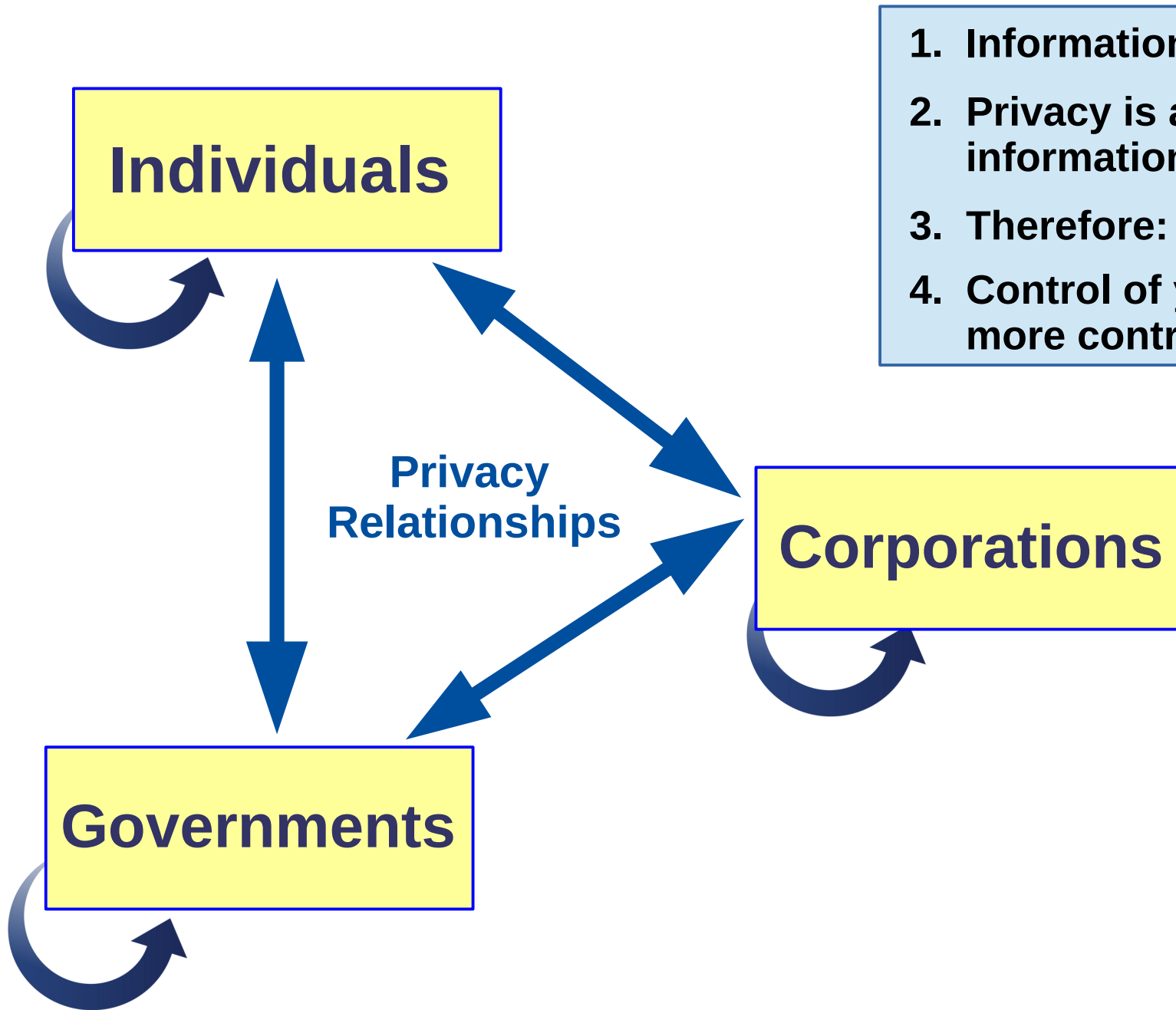
- all devices collect data
- purchases
- everywhere you go
- entertainment
- internet (searches, websites)

**Personality:**

- social media
- posts (UTube, forums, blogs)
- behaviors

*Who controls data about you ?*

# Privacy is *Power*



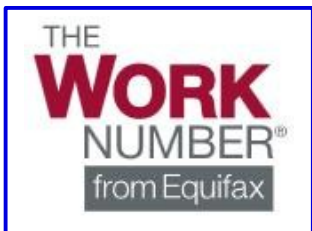
1. Information is power
2. Privacy is about who controls information about you
3. Therefore: Privacy is power
4. Control of your data yields more control over your life!



# Privacy is *Power*



**Example: Salary Negotiation**



**Without privacy, you lose !**

# Privacy is a Human Right

Psychology:

Privacy is required for the  
existence of the self

A Human Right:



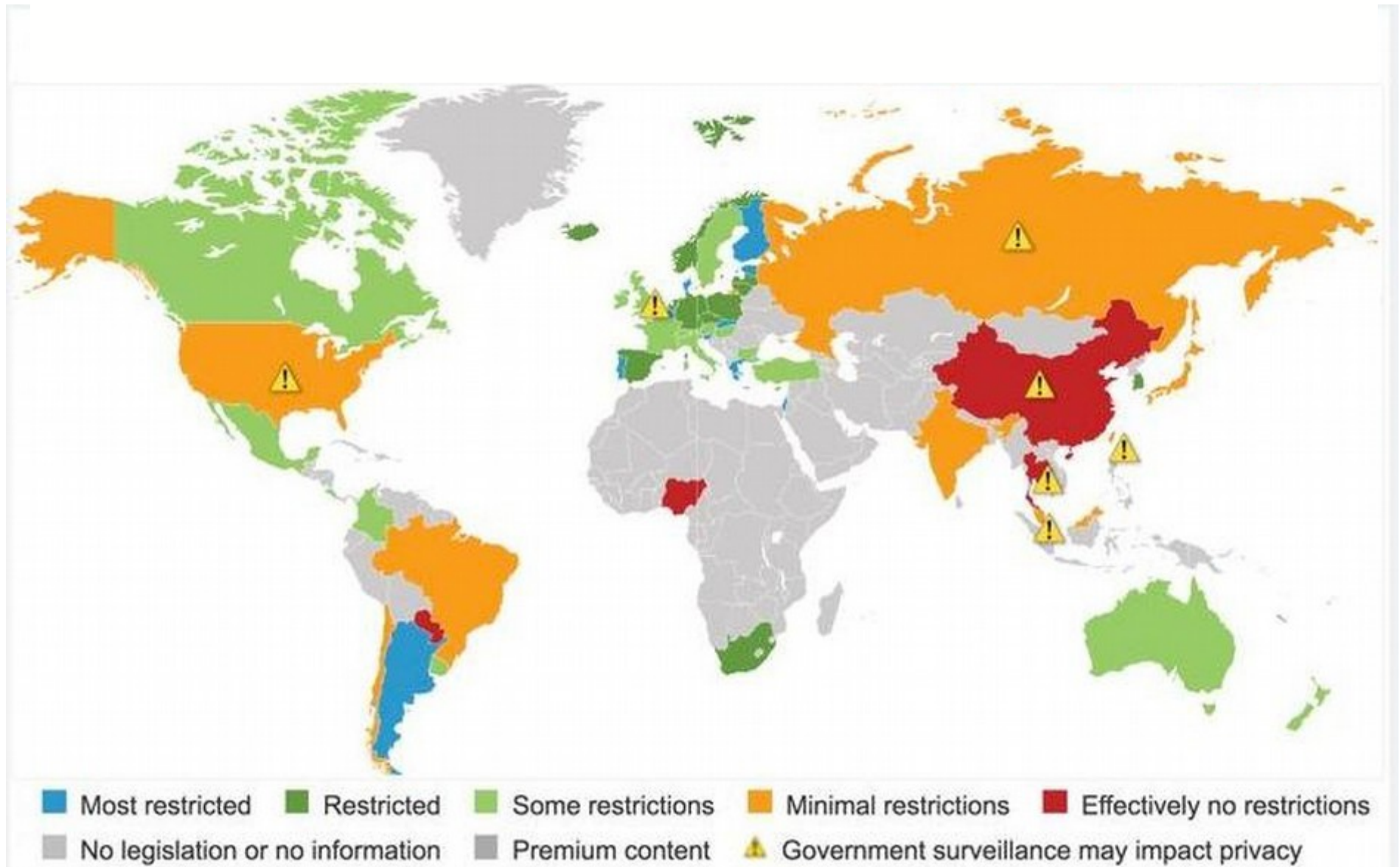
Not in the US:



USA

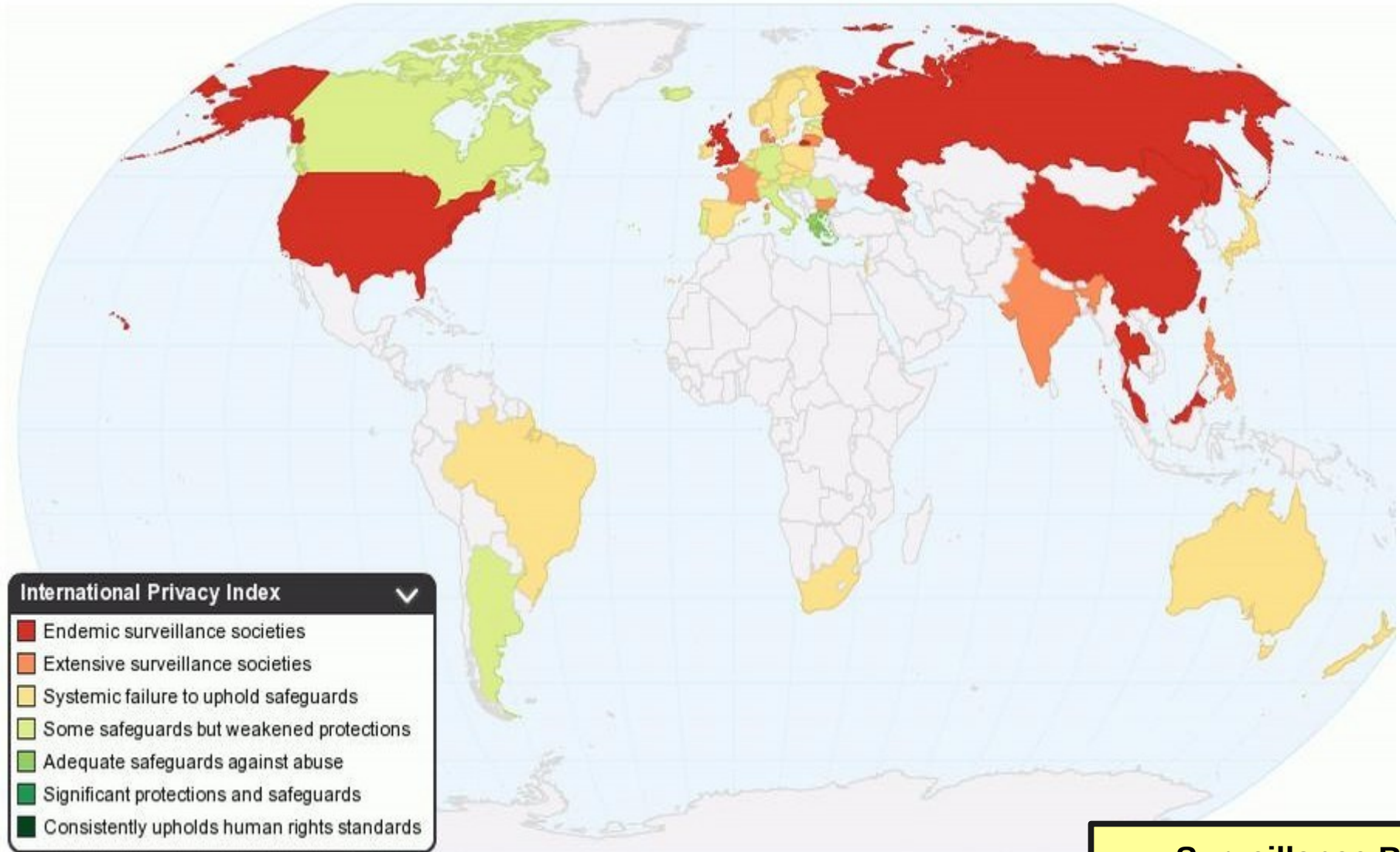


# Is Your Privacy Protected From Corporations?





# Is Your Privacy Protected From the Government?



Courtesy: Privacy International, EPIC, and BestVPN  
(old slide but accurate for USA & UK)

	<b>Surveillance By:</b>
<b>UK</b>	<b>Democracy</b>
<b>USA</b>	<b>Secrecy</b>



# US Gov't Surveillance

**Executive Branch Top Secret --**

**Congress, Judiciary, and public are kept ignorant**

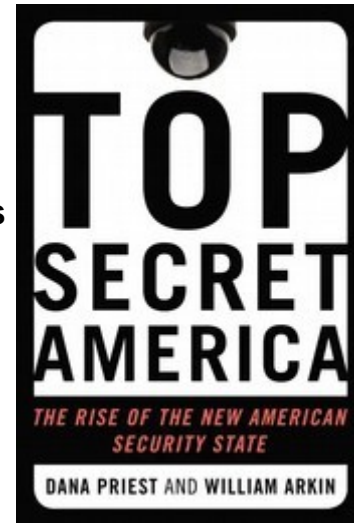
**NSA Utah  
Data Center**



Courtesy: nsa.gov

10 years ago:

- Budget \$75B  
+ **black budget**
- 1.7B **communications**  
stored per day
- 1,271 agencies
- 1,931 contractors
- 1 million have  
top-secret clearance



Courtesy: amazon.com

***“Collect it all.”*** --former NSA Director Keith Alexander

## ***New York Times' Privacy Project***



**Here is the stark truth: We in the West are building a surveillance state no less totalitarian than the one the Chinese government is rigging up.**

# How US Surveillance Happened

1975 to 2001: FBI – domestic / NSA – overseas



2001: Bush – NSA targets America to find thousands of Al-Qaeda “sleeper agents”



2016: Obama – 16 agencies get NSA data



Data used for purposes other than fighting terrorism

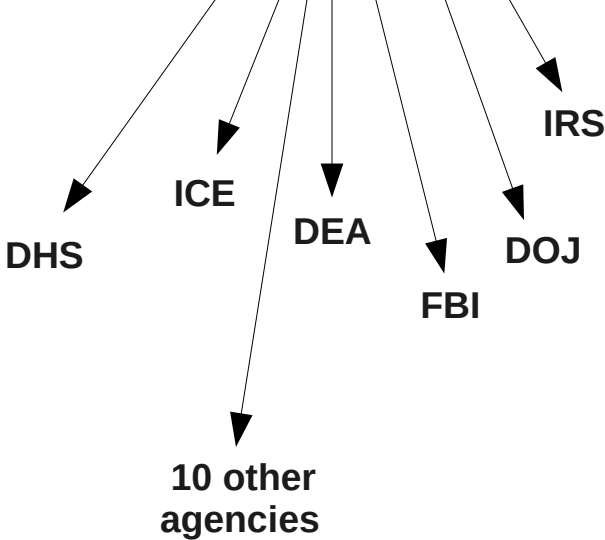


Unconstitutional – 4<sup>th</sup> Amendment

Status Today ?

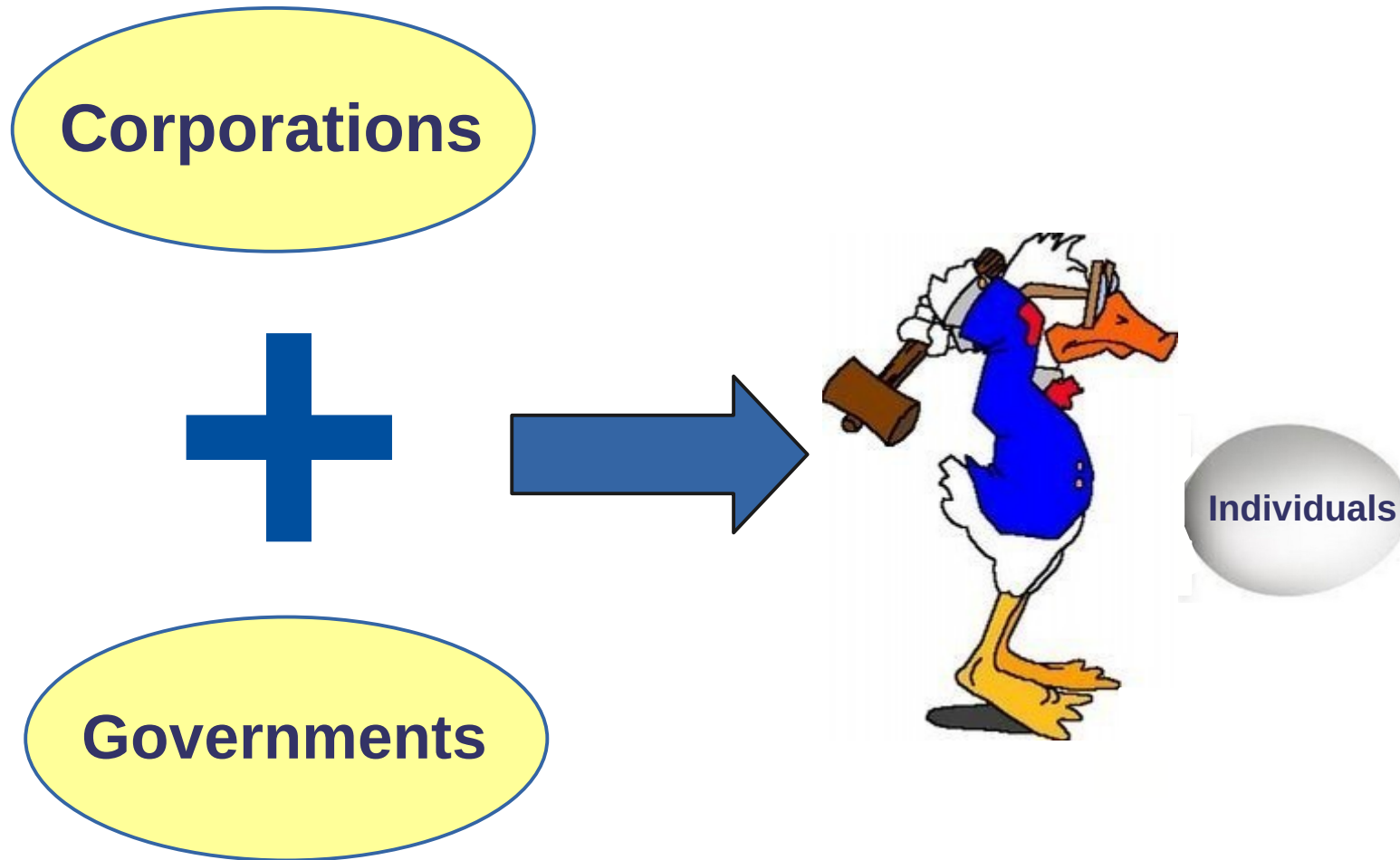


Courtesy: NSA



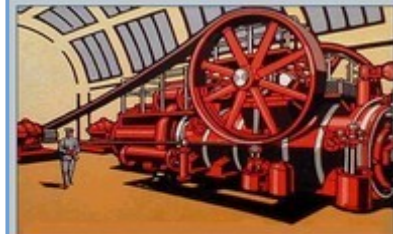


# *Why* You are Losing Privacy



## The Surveillance-Industrial Complex:

How the American Government is Enlisting Private Parties in the Construction of a Surveillance Society



1. Your life is digitized
2. They gain power by appropriating your data



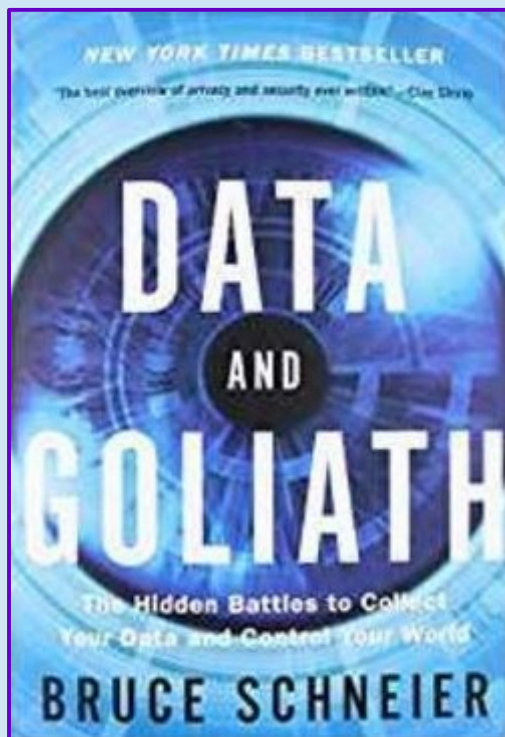
# Privacy Misconceptions

- *I'm not important, they won't bother with me*
  - **Why is your data a \$230 billion industry ?**
- *They won't notice me... I'll hide in the crowd*
  - **Computers process billions of records equally**
- *I don't care if they target me for ads*
  - **This is about power to manipulate you**
- *You have no privacy, get over it*
  - **Laws can fix this!**
- *If you have nothing to hide, you have nothing to fear*
  - **"Give us power without oversight – just trust us!"**

Courtesy: nsa.gov



## II. Technologies



← Recommended

# Tracking Your Location

**REAL-TIME LOCATION**

Map Satellite

LOCATION MESSAGE EVENTS

Map data ©2018 Google Imagery ©2018, Bluesky, DigitalGlobe, Landsat / Copernicus, Sarbom, USDA Farm Service Agency Terms of Use Report a map error

908 [redacted] is located in the neighborhood of:

LOCATION RESULTS		WHAT'S NEARBY	
Address:	36 E 29th St	Cross Street:	Madison Ave
City, State:	New York, NY	Intersection:	F D R Dr & I-495
Zip Code:	10016	Point Of Interest:	De Plano Group Inc
Country:	US		
Latitude/Longitude:	40.744410, -73.985080		
Accuracy:	0.21 miles		
Response Time:	6.10 seconds		

DEVICE DETAILS	
Carrier:	Verizon Wireless
Type:	Wireless
SMS:	Supported

Courtesy: ZDNet @ [zdnet.com/article/us-cell-carriers-selling-access-to-real-time-location-data/](http://zdnet.com/article/us-cell-carriers-selling-access-to-real-time-location-data/)

## Location Tracking Technologies:

- Cellphones
- Cars
- Wearables
- License Plate Readers (LPRs)
- GPS
- Geofencing
- Stingray (govt tool)
- Cameras (Facial Recog. soon)
  - Home (Ring)
  - Streets
  - Schools
  - Stores
  - Events
  - Cars
- Aerial
  - Gorgon Stare
  - Satellites
  - Drones
  - Planes

**Cell Tracking –  
Reports your location tens of  
thousands of times per day !**

**You're tracked 24 x 7 x 365 !  
Selling your data is a \$12 Billion business**

TheMarkup.org



# Why Do You Care?



Courtesy: cnbc.com

## Location data tells –

- If you're LGBTQ
- Your race & ethnicity
- Your medical problems
- If you're in therapy
- If you drink a lot
- If you cheat on your spouse
- Who you sleep with
- If you're hiding taxable income
- Political beliefs
- If you oppose US military policies
- How you vote
- If you're a religious minority
- ... so much more ...

**Principle: “Big Data”  
tells them anything !**

**Data  
Appropriation:**

**Do we want private lives ?**

**Or do we let corporations sell them ?**

# Facial Recognition

Courtesy: DreamsTime.com

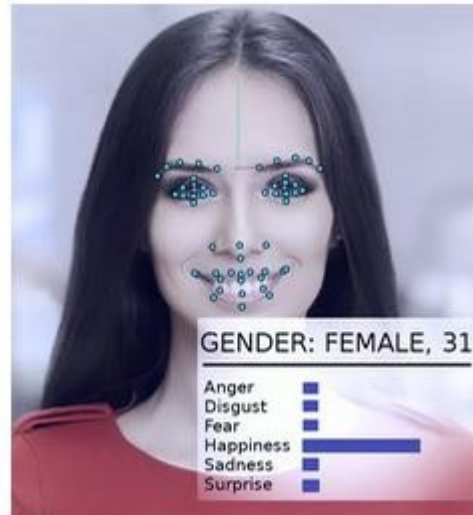
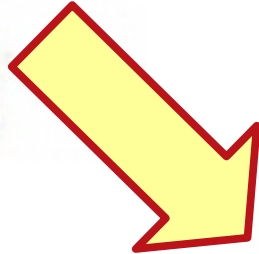


Cameras courtesy SafeHome.org



Your face is appropriated:

- Internet
- Social Media
- Youtube
- Airports
- Your job
- Govt & Military IDs
- etc

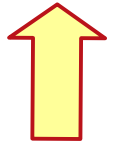


Courtesy: Abyssus/Wikimedia Commons CC BY-SA

Your face is a password you can't change

FR Evolution

video analytics



real-time



static

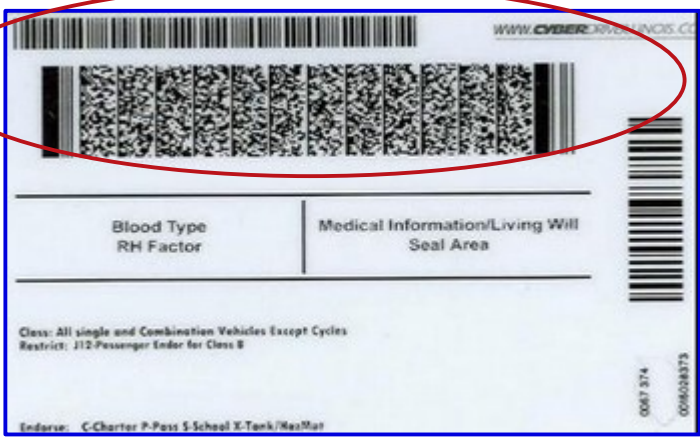
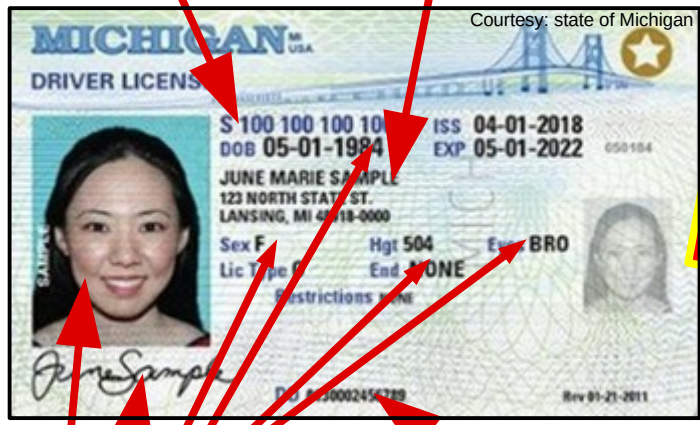
- *Data Cross-Use*
- *Future Use*



# (1) Over Collection

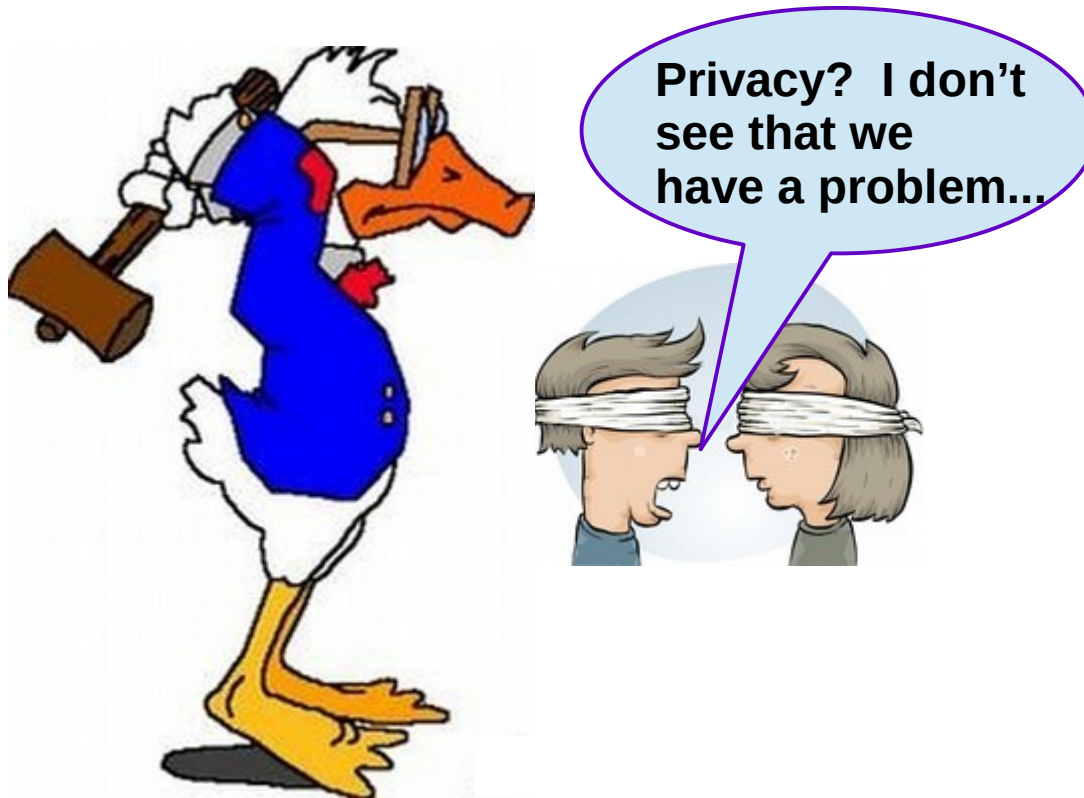
# (2) Cross Use

# (3) Ineffective Laws



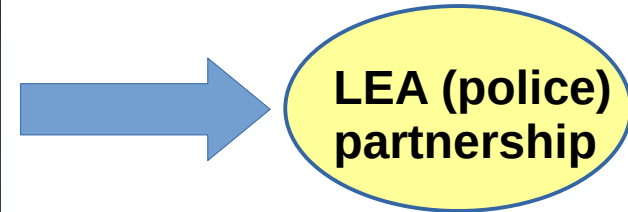
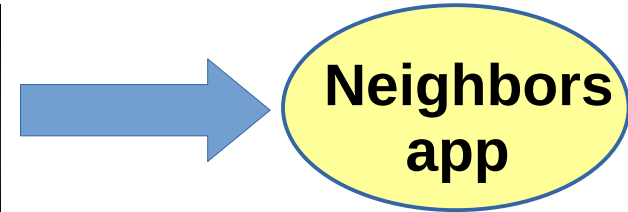
**Drivers Privacy Protection Act (1994, 2020) is ineffective**

- (1) The more you give out your data, the more you'll pay (eg, ID theft)
- (2) But you're often *forced* to give out your data
- (3) Then it's sold! Or hacked!
- (4) You can't connect how it harms you to who is responsible
- (5) This is why people don't "get" privacy



# Public Surveillance – Ring

Courtesy: Amazon Ring



**Surveils the street**

**Listens up to 40 feet**

Read – [eff.org/deeplinks/2020/01/ring-doorbell-app-packed-third-party-trackers](https://www.eff.org/deeplinks/2020/01/ring-doorbell-app-packed-third-party-trackers) [www.wired.com/story/why-we-do-not-recommend-ring/](https://www.wired.com/story/why-we-do-not-recommend-ring/)  
[washingtonpost.com/technology/2019/11/19/police-can-keep-ring-camera-video-forever-share-with-whomever-theyd-like-company-tells-senator/](https://www.washingtonpost.com/technology/2019/11/19/police-can-keep-ring-camera-video-forever-share-with-whomever-theyd-like-company-tells-senator/)  
[nbcnews.com/news/all/cute-videos-little-evidence-police-say-amazon-ring-isn-t-n1136026](https://www.nbcnews.com/news/all/cute-videos-little-evidence-police-say-amazon-ring-isn-t-n1136026)  
[thenextweb.com/artificial-intelligence/2020/01/31/why-amazons-ring-and-facial-recognition-technology-are-a-clear-and-present-danger-to-society/](https://thenextweb.com/artificial-intelligence/2020/01/31/why-amazons-ring-and-facial-recognition-technology-are-a-clear-and-present-danger-to-society/)



# Public Surveillance – More

## – 1 Camera for every 4 Americans

- Streets
- Homes
- Stores
- Corporations
- Google Streetview
- Events
- Schools ( >90% for H.S. and M.S.)

– LEA partnerships

– Camera apps (like Neighbors)



Courtesy: tec-tel.com



Courtesy: DailySquib.co.uk

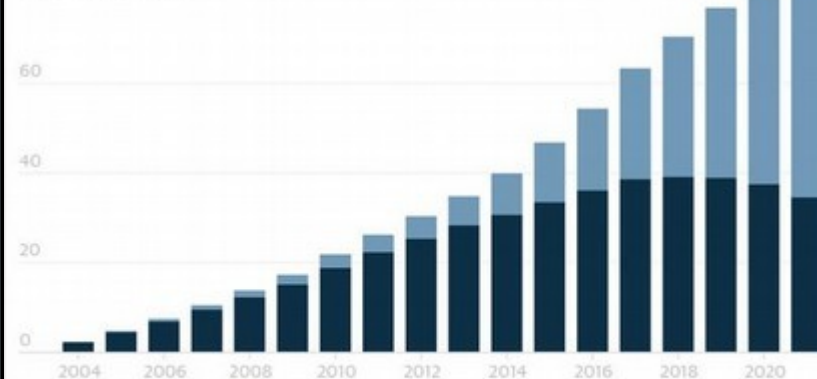
→ **A comprehensive public surveillance network.  
It's also a GOVERNMENT surveillance network.**

## Increase in surveillance cameras installed in the US

Security camera installations are up over 3,500% from 2004 to 2021

■ Analog/CCTV cameras ■ Networked cameras

80m cameras installed



Guardian graphic. Source: Omdia Video Surveillance and Analytics Intelligence Database

Source: Guardian 9/4/21

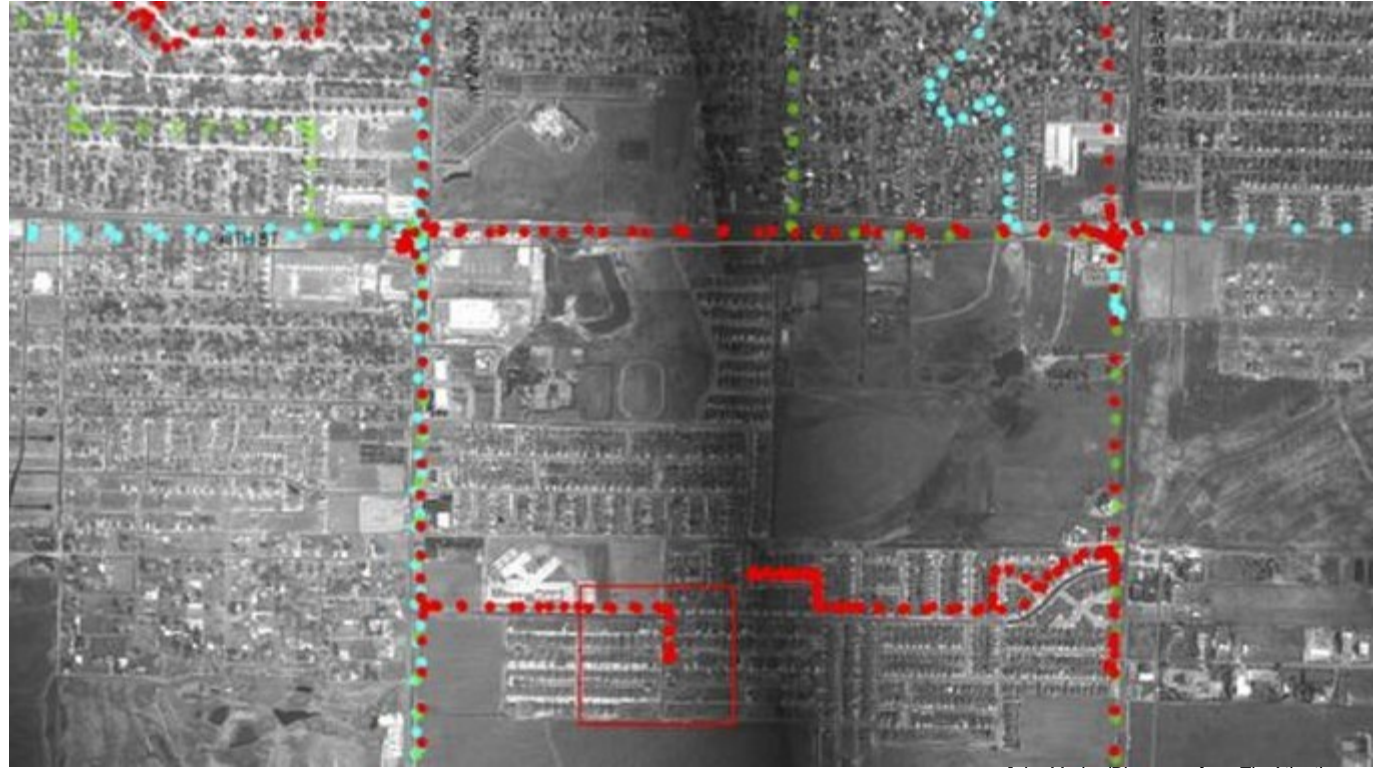
Read: [www.vice.com/en/article/qvg48d/everything-you-need-to-know-about-ring-amazons-surveillance-camera-company](http://www.vice.com/en/article/qvg48d/everything-you-need-to-know-about-ring-amazons-surveillance-camera-company)

[www.theverge.com/2019/12/9/21002515/surveillance-cameras-globally-us-china-amount-citizens](http://www.theverge.com/2019/12/9/21002515/surveillance-cameras-globally-us-china-amount-citizens) [www.safehome.org/doorbell-cameras/statistics/](http://www.safehome.org/doorbell-cameras/statistics/)

# The “Gorgon Stare” – Mass Aerial Surveillance

By:

- Police
- FBI
- DHS
- Military



John Marion/Bluegrass from TheAtlantic.com

**Surveillance of entire city by one airborne vehicle**

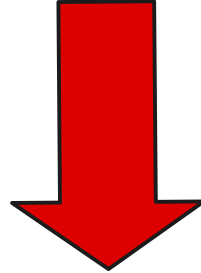
- No informing the public
- No community control
- Little evidence of crime reduction

**-> Status ?**



# Why Don't Courts Protect Privacy?

**Old precedents bind the courts :**



*No expectation of privacy in a public place*

**==> Facial recognition, locational tracking ...**

1967,  
1976

*3<sup>rd</sup> Party Doctrine – You give out data, you lose control of it ... entirely*

**==> No limits on use of your data**

1967

*“The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated ... no Warrants shall issue, but upon probable cause ... describing the place to be searched, and the persons or things to be seized.”*

**==> Forbids mass gov't surveillance, and FISA court killed it**

4<sup>th</sup>

Amendment

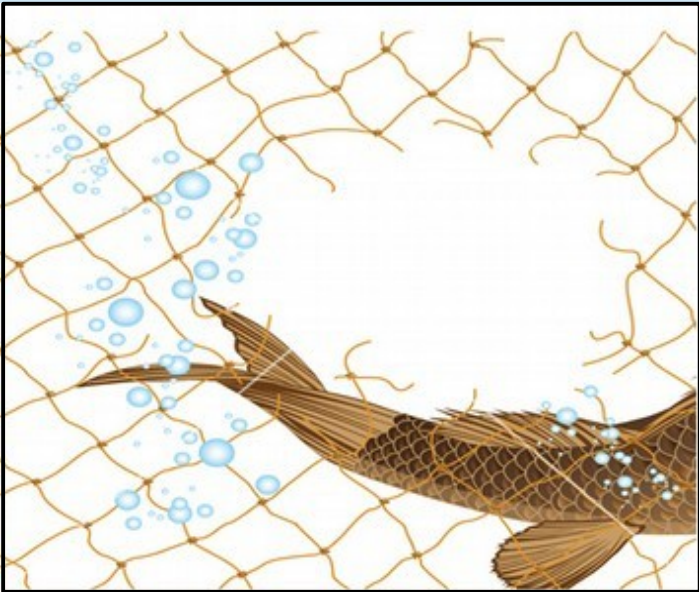


Turtle Courtesy of ST Lewis @stlewis.art



**FAIL !**

# US Privacy Laws



Courtesy of Volacci.com

**FAIL !**

# US Privacy Laws

**HIPAA (healthcare)** Problem: only covers (1) Providers & (2) Insurers

Doesn't cover credit cards, purchases, locational data, social media, searches, forums, emails ...

Read: [www.propublica.org/article/health-insurers-are-vacuuming-up-details-about-you-and-it-could-raise-your-rates](http://www.propublica.org/article/health-insurers-are-vacuuming-up-details-about-you-and-it-could-raise-your-rates)

**GINA (DNA discrimination)** Problem: Only covers (1) Employment & (2) Health Insurance. Nothing else!

**GLBA Graham-Leach-Bliley Act (financial)** Problem: Opt-in is default. Consent forms are dark patterns

**Credit Bureaus (financial)** (FCRA), FACTA). Problem: Credit theft is easy. Good: Consumer remediation

**Childrens Online Privacy Protection Act (COPPA, 1998)** Age 12 or less. Problem: 13 is an adult? Not enforced.

**FERPA** Problem: Doesn't stop runaway data collection, or surveillance outsourcing to corporations

**Drivers Privacy Protection Act (DPPA)** Problem: So why do many states still sell your data?

**Privacy Act of 1974 (Govt data collection)** Problem: Gutted by exceptions and outsourcing to corporations

**Right to Financial Privacy Act 1978 (Govt data collection)** Problem: Gutted by Patriot Act

**FOIA (data review)** Problem: Agencies can slow-walk it

**Patriot Act (I and II), Freedom Act, FISA (I and II), 215, 702, 12333 ...** Problem: It's unclear gov't follows laws

**FISA Court (surveillance)** Problem: Often hears 1 side, limited investigative ability, mainly secret, a rubber stamp

**State Laws** Problem: They vary and can't solve a national issue.

Problem: **Few to no regulations** – Online data collection, social media, data selling, data aggregation, AI processing, profile compilations, data security & encryption for PI, etc

# ***The Internet: “Surveillance is its Business Model”***

– Bruce Schneier

- Web searches
- Web surfing behavior:
  - Pages visited
  - Every click you make
- Posts:
  - Social media
  - Blogs
  - Websites
  - Forums
- Contact lists
- Purchasing behavior and history
- Email, texts, tweets, chats, IMs, VOIP ...
- **ISPs can read your connection and sell your data** (Deep Packet Inspection)
- Meta Pixel and Google reCAPTCHA



Courtesy: [lighthouseinsights.in/with-netra-the-government-of-india-will-upgrade-internet-surveillance.html/](http://lighthouseinsights.in/with-netra-the-government-of-india-will-upgrade-internet-surveillance.html/)

**Loss of privacy is huge!**

**Goal: know you *intimately***

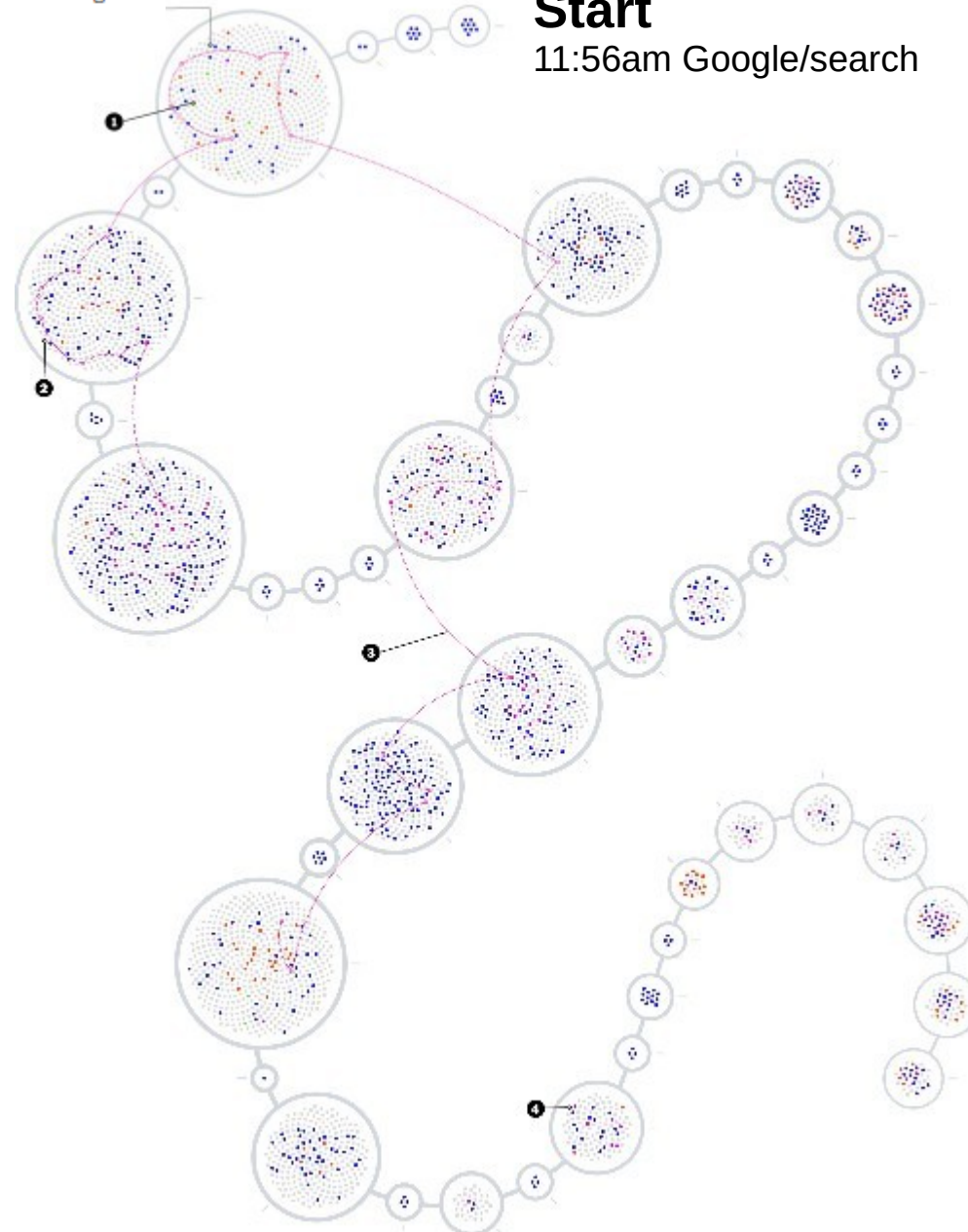
# Tracking You: 3 Hours Online

## Tracking Resources

- Amazon
- Facebook
- Google
- Collects my latitude and longitude
- Trackers sharing unique ID

**Start**

11:56am Google/search



Each circle is an event.

Each dot is a tracker for that event.

Websites share your data with up to 1,500 companies

**End**

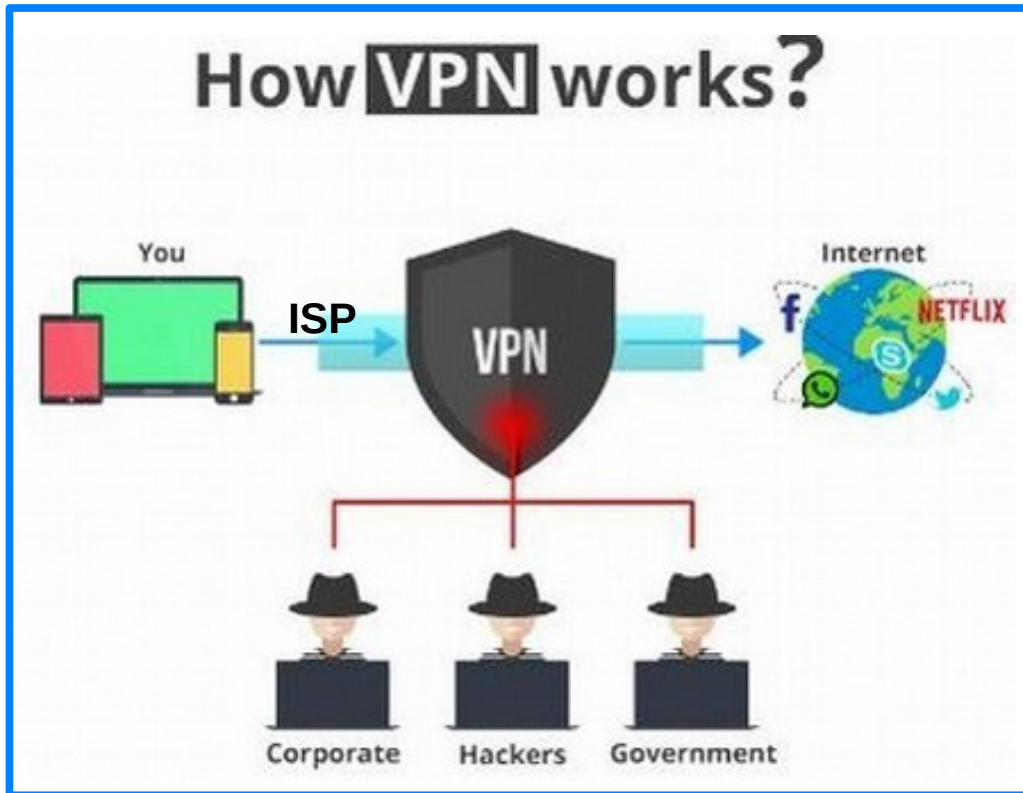
3:17pm

From: [www.nytimes.com/interactive/2019/08/23/opinion/data-internet-privacy-tracking.html](http://www.nytimes.com/interactive/2019/08/23/opinion/data-internet-privacy-tracking.html)  
<https://www.wired.com/story/cookie-pop-up-ad-tech-partner-top-websites/>

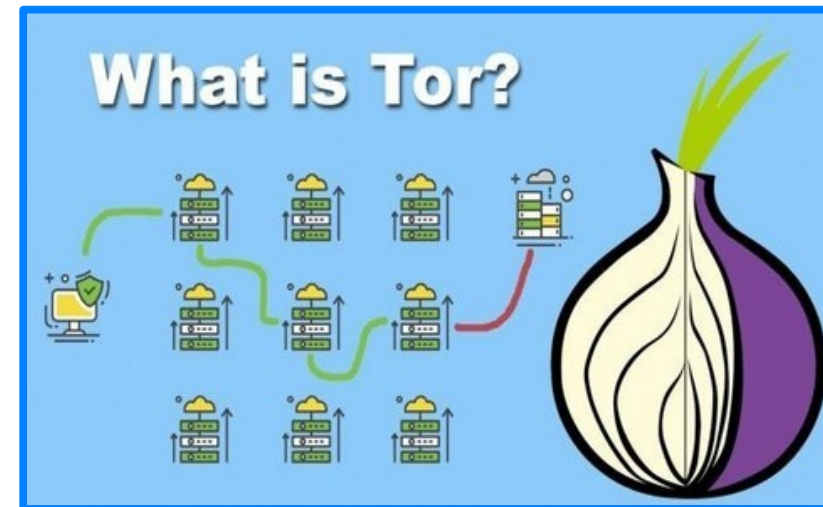
See all trackers on a website –  
<https://themarkup.org/blacklight>



# Use VPNs for Privacy (or TOR)



Courtesy: VPNranks.com



Courtesy: WhatIsMyIPAddress.com/tor-basics

### Look for:

- Trust
- No logging
- Speed

- Free Browser
- NoScript, HTTPS Everywhere
- Reduces trackers, defends identity
- Requires Expertise
- Not anonymous from a “ubiquitous surveillor”



# What Do They Know About You?

## Google Example:

- **Every place** you search in Google Maps
- **Every question** you ask Google Assistant
- **Every comment** you leave on YouTube
- **Every video** you watch
- **Every news article** you read on Google News
- **Every ad** you view or visit in Google's products
- **Every app** you open, search for, download
- **Every gmail**

... and **more**



Courtesy: [addictionandrecoverynews.wordpress.com](http://addictionandrecoverynews.wordpress.com)

**From:** "How to Download a Copy of Everything Google Knows About You"

– Todd Haselton, 3/30/18, CNBC.com



# What Do They Know About You?

Why not download your raw data and find out?

Google

<https://support.google.com/accounts/answer/3024190?hl=en>



Facebook

<https://www.facebook.com/help/212802592074644>



Amazon

Go to “My Account”, then “Request My Data”



***Much* more intimate than any diary!**

# Emails & Texts Could Expose Your Life

## Emails

Default – encrypted transmission,  
but messages not encrypted

- \* Use optional encrypted features of Gmail and Outlook
- \* Use add-on like Mailvelope (Gmail)
- \* Use E2EE product (like Proton Mail)

## Cell Apps

No Encryption – SMS

Must Enable – Telegram, Messenger

E2EE by Default – Signal, iMessage,  
Instagram, WhatsApp (since 12/23)

## We Need:

- (1) “End-to-end” (E2EE) encryption
- (2) One E2EE standard for all products

## Workarounds --

- (1) Both partners use same E2EE product
- (2) Email -- Encrypted attachments

# How To Stop Their Tracking

<u>Mechanism:</u>	<u>To Defeat It:</u>
Location Tracking	Use a burner cell w/o apps. Avoid FR, wearables, new cars, bank cards (pay cash)
Login Tracking (to Google, Chrome, Gmail, Facebook, Disqus, Yahoo, Microsoft...)	Don't log in. Delete cookies/cache on shutdown
Communications (Email, texts, tweets, IM's)	End-to-end Encryption (E2EE)
ISP Monitoring (DPI)	Virtual Private Network, HTTPS, TOR
Web bugs, cookies, flash cookies, 3 <sup>rd</sup> party cookies, evercookies, email trackers ...	Browser settings and extensions, clear cache, Email forwarding/protectors
Spy Browsers (eg Chrome)	Use another browser (eg Brave)
Spy Browser Extensions	Don't install
Spy OS's (eg, Chrome OS, Windows 10)	Use Linux (Windows → change defaults)
Spy Apps	Don't install. Install anti-malware
Mac and IP addresses	Change or Mask or TOR
Device Fingerprinting	Browser settings and extensions
Internet Search history	Use DuckDuckGo or StartPage
Cracking your Password	2 Factor Authentication (2FA), Password Mgr, verify password complexity
Credit / Debit card tracking	Use cash or virtual credit cards.

**Requires Expertise & Time. Solution: a Privacy Right and Laws**

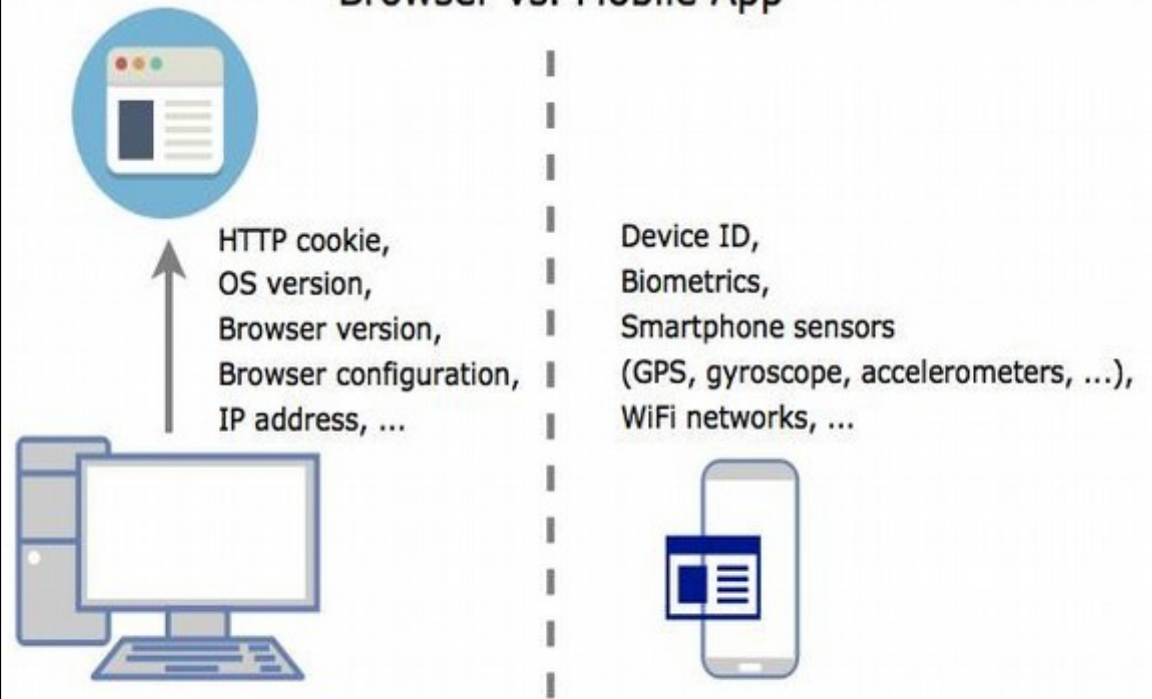




# Device Fingerprinting

**How to Identify & Track People Without them Knowing**  
(circumvents VPNs, no cookies, etc )

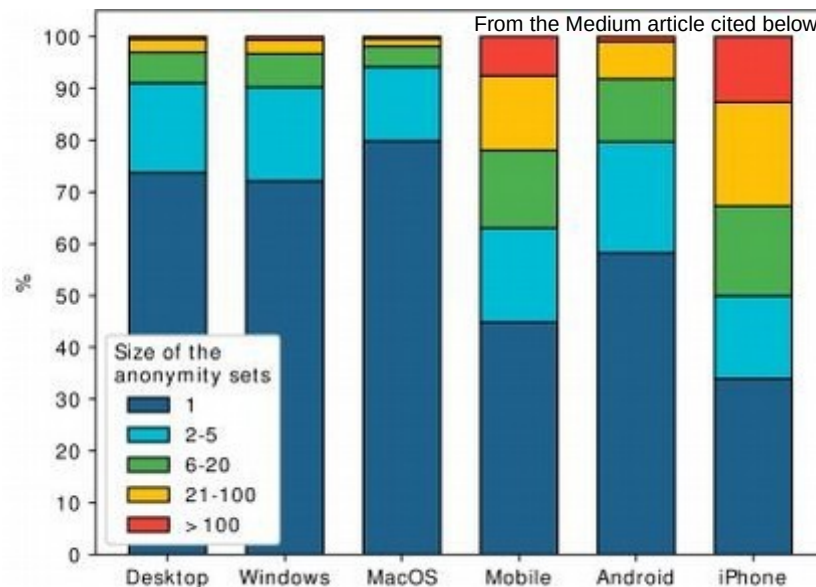
## Browser vs. Mobile App



*Identifiers used in device fingerprinting: browser vs. mobile app. Compared to web services, mobile apps reside on the device and hence have access to more fine-grained information for device fingerprinting.*

By Dr. Ting Fang Yen @ DataVisor.com

## 567,000 Fingerprints



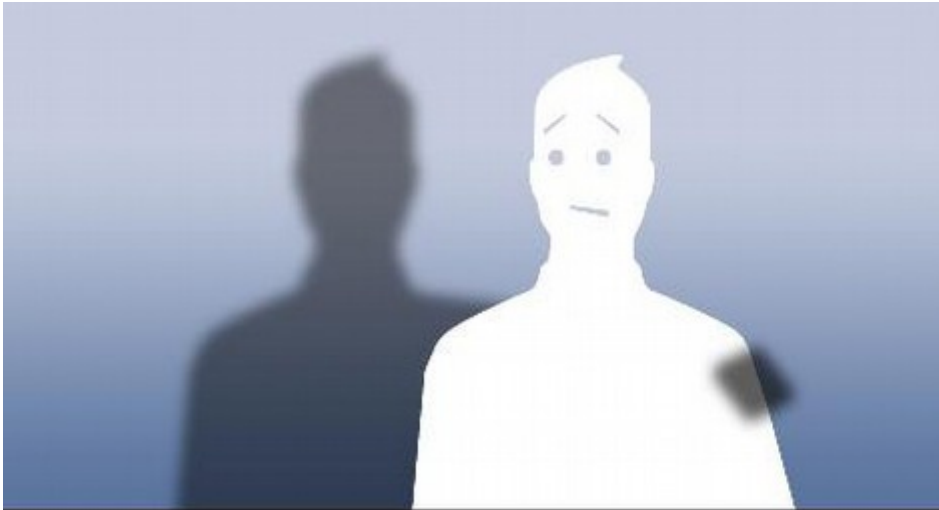
**Another Technique:  
Secret Biometrics Collection**

# “Shadow Profiles”

## How to Build Profiles Without People Knowing

### Circumvents:

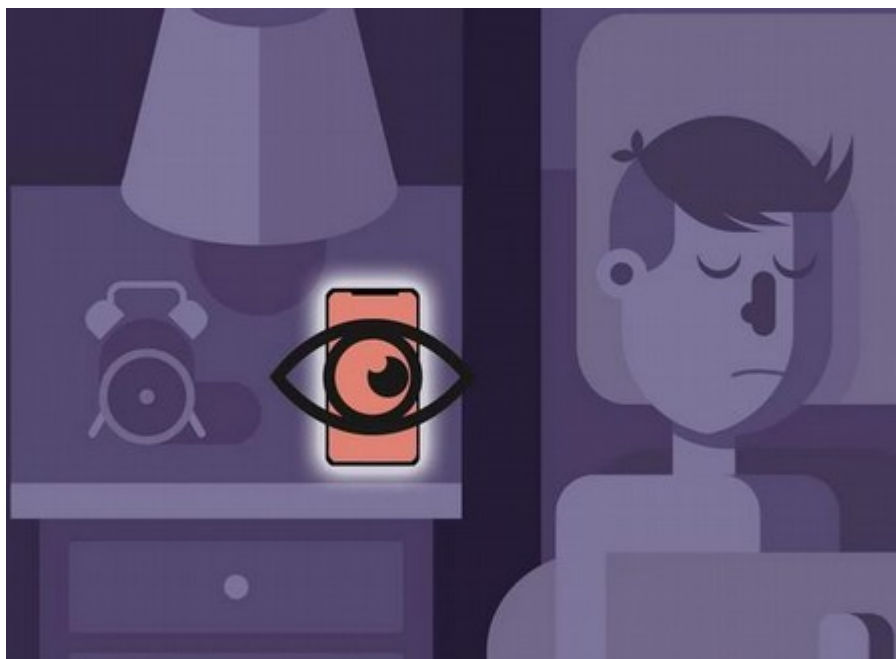
- Those who don't sign up / login (eg FB, Google...)
- Informed consent
- Subjects' control of their data
- Privacy laws



# The Secret Life of Your iPhone



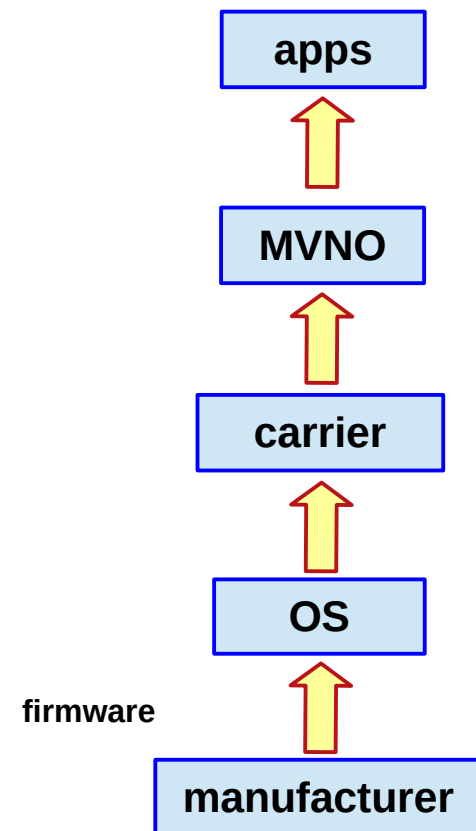
Courtesy: Amazon.com.



Washington Post Illustration/ iStock

- Phone busy all night exfiltrating your data
- 5,400 data trackers active in a week

## Privacy Levels for your Cell:



From "It's the Middle of the Night. Do You Know Who Your iPhone is Talking To?"

Washington Post, by Geoffrey Fowler, 5/28/19

<https://www.comparitech.com/blog/vpn-privacy/stop-mobile-phone-tracking/>

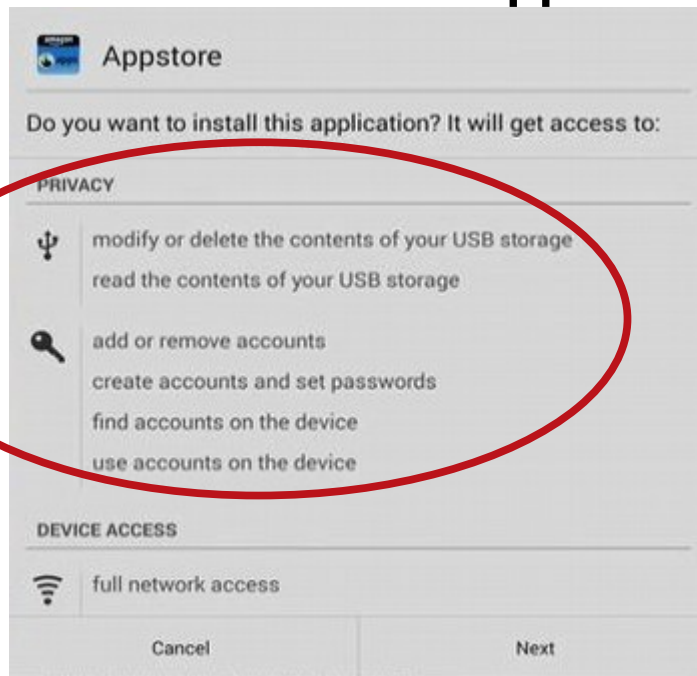
# Apps & Browser Extensions Steal Your Privacy

ICSI study ==> 1,300 Android apps harvest data without permission!

NC State ==> Found 3,800 malware extensions affecting 60 M users in Chrome Store

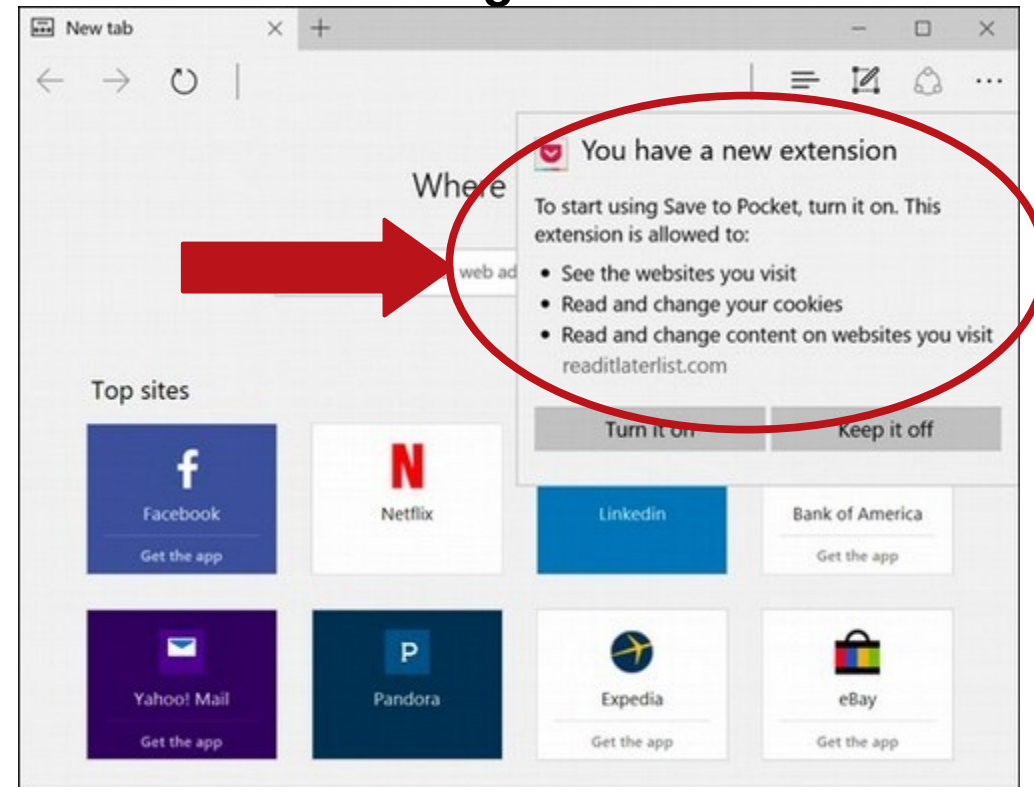
Lockdown Privacy ==> Apple's "Ask App Not to Track" does not work (9/21)

## "Privacy Dashboard" for Android Apps



Courtesy: cropped from androidcentral.com/android-apps-install

## Installing Browser Extension

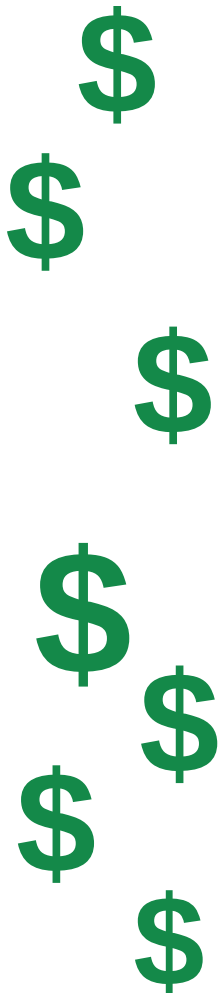


Courtesy: howtogeek.com/249921/how-to-install-extensions-in-microsoft-edge/

**It's a sham to place this privacy burden on users!**

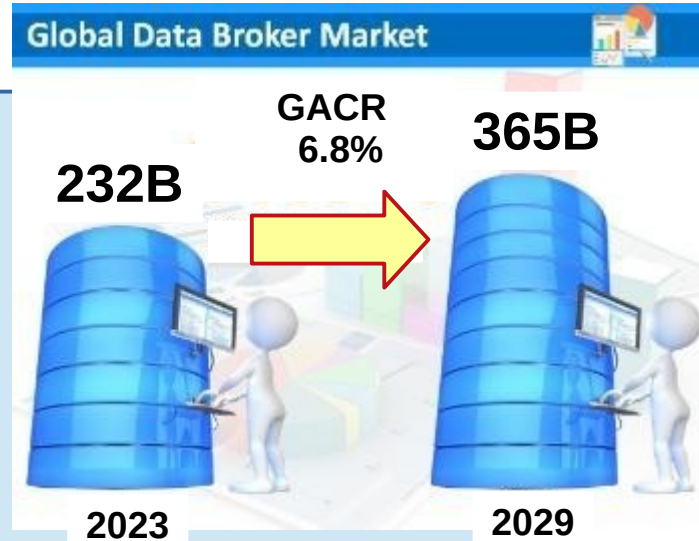


# The “Data Brokering” Industry



**\$230 billion business**

- **Unregulated**
- **Sell sensitive data without regard to harm!**
  - Police officers
  - Rape victims
  - AIDS sufferers
  - Addled Seniors
  - Children
  - Political opponents
  - Military personnel
  - Your politics, race, religion, opinions...
  - To foreign powers
- **Govt buys data to circumvent privacy laws!**
- **Categorizes people and imposes decisions on them**



Source: Transparency Market Research 2023



**Solution: Obligations for PI vendors, rights for subjects, with effective penalties for violators**

**See: GDPR, FTC report: “A Call for Transparency & Accountability”**

# The Bogus “Consent” Industry

1

Worthless “consent” for installing Apps, Extensions...

2

“Privacy Policy”

Page 24

...

...

We reserve the right to change this policy at any time by posting the amended version on our website...

...

Look for “change” or “alter” or “update”

by Howard Fosdick

Non-binding !

3

Sign under Duress

- (1) Oligopoly – you have no choice
- (2) Time-pressure signings

4

“Dark Patterns”

Designed to fool you !

**Solutions:** (1) **Opt-out should be default**  
(2) **Consumer Protection laws**

**Remove burden from Consumer put it on Corporations**

# The “Software Tools” Scandal

Meta  
Pixel



Courtesy: Meta

Google



Collects your private data from:

- Medical (Hospitals, Pharmacies)
- Kids (schools, college applications)
- Finance (Banks, Mutual Funds)
- Tax prep companies
- Gov't agencies
- Suicide hotlines
- more

Some 186,000 companies!

**HUGE  
Privacy violations**

I'm not a robot



Submit

Courtesy: Google

- Forces users to give Google data
- Penalizes users who want privacy (VPN users & those w/o Google Login)

May Collect:

- Screen contents (inc. PI & passwords)
- Device fingerprint
- User behavior
- Data used for undisclosed purposes (CNIL - French Privacy Commission)







# From **One** Breach!

BRANDS WITH 100M+ LEAKED RECORDS	
BRAND NAME	RECORDS LEAKED
Tencent	1.5B
Weibo	504M
MySpace	360M
Twitter	281M
Wattpad	271M
NetEase	261M
Deezer	258M
LinkedIn	251M
AdultFriendFinder	220M
Zynga	217M
Luxottica	206M
Evite	179M
Zing	164M
Adobe	153M
MyFitnessPal	151M
Canva	143M
JD.com	142M

26 billion records

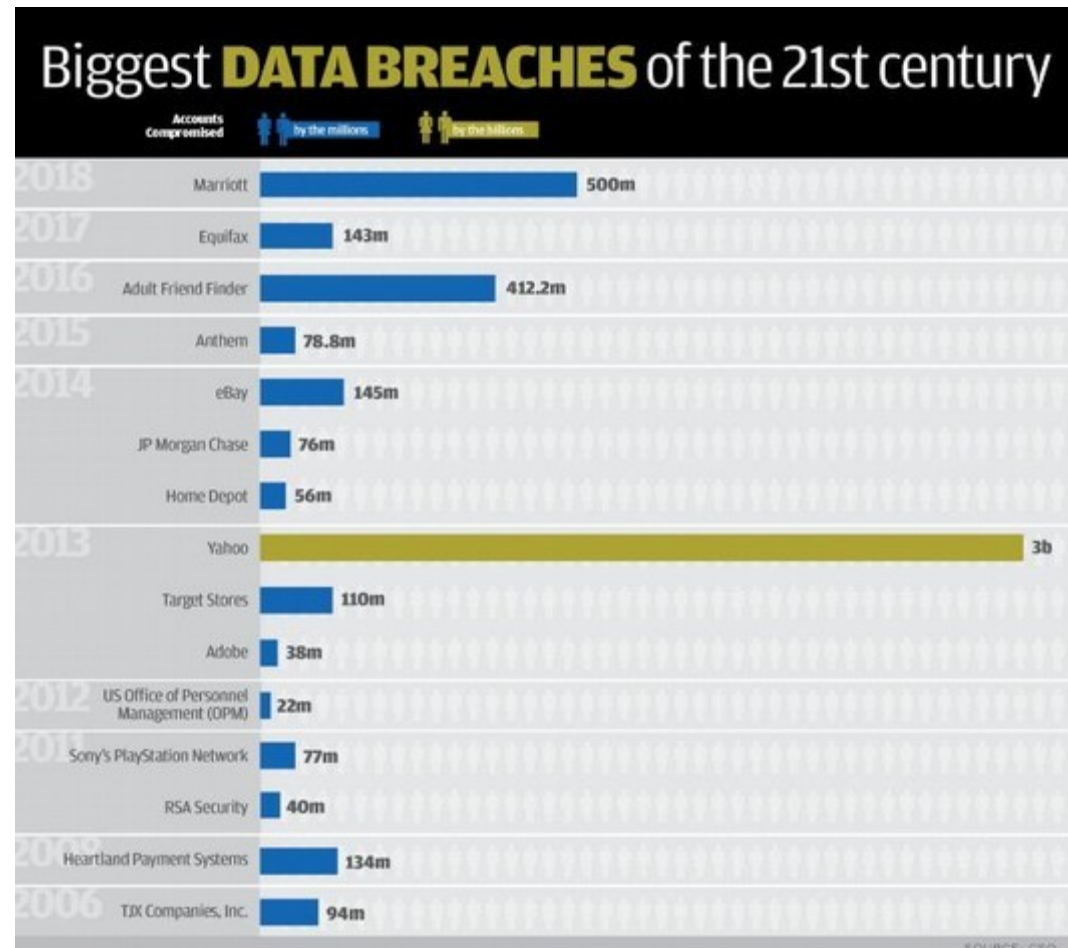
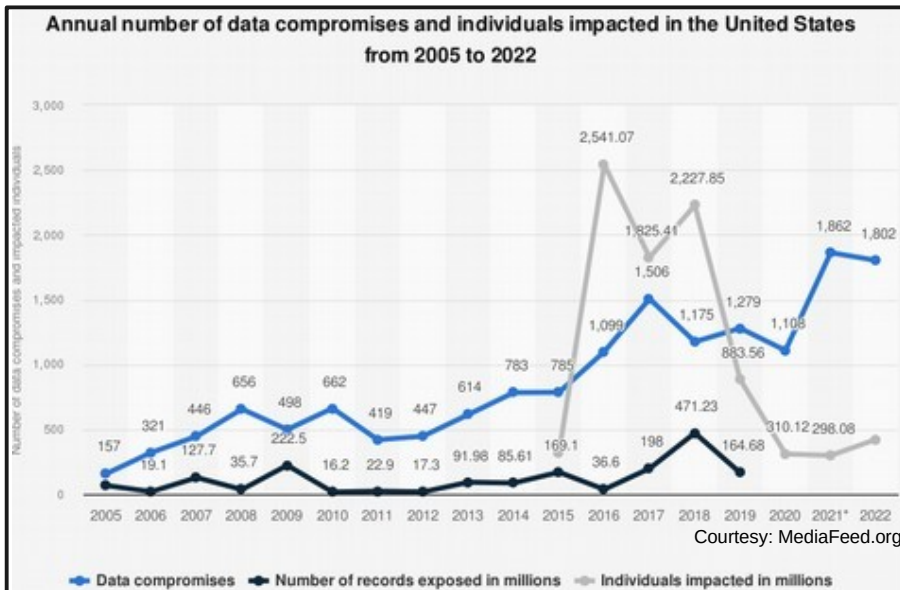
Read: <https://cybernews.com/security/billions-passwords-credentials-leaked-mother-of-all-breaches/>

# Data Breach

An organization appropriates your PI, then loses it

**You pay the price !**

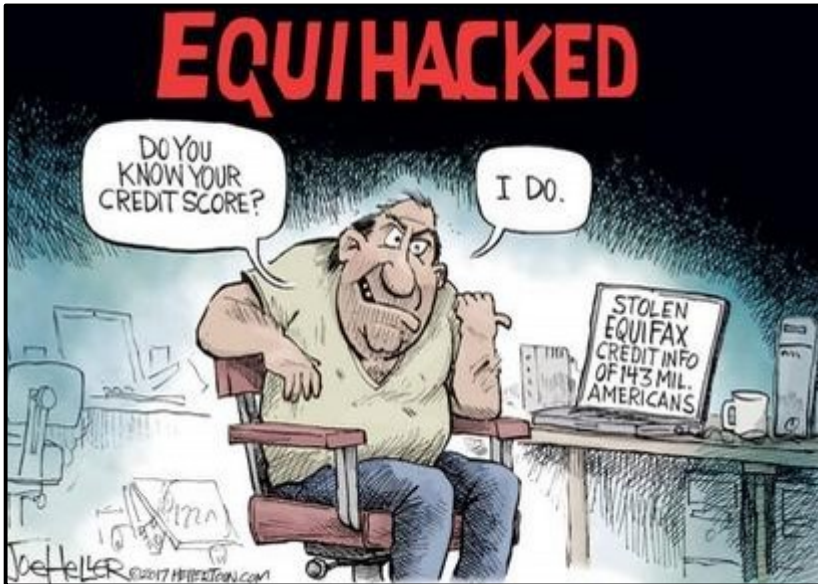
**Over 13 billion records lost since 2005  
– hf est.**



## **Solutions –**

- If you store PI, you must:
  - Know what data you have
  - and where it is!
  - Encrypt the data
  - Logging
  - Meet security standards
  - Only collect necessary data
  - Delete old data
- Limits on cross-use, data selling
- Subjects' rights
- Penalties for violators
- Default encryption for Windows
- Better MS password schemes
- Encrypted email, text, voip

# Equifax Lost PI of 147 Million



Joe Heller via focusfinancialadvisors.com



Equifax logo courtesy of Equifax

Dave Granlund via the-review.com

## EQUIFAX

So we can verify if your data was hacked, please provide:

Your Name: \_\_\_\_\_

SSN: \_\_\_\_\_

Equifax sees the breach as an opportunity for:

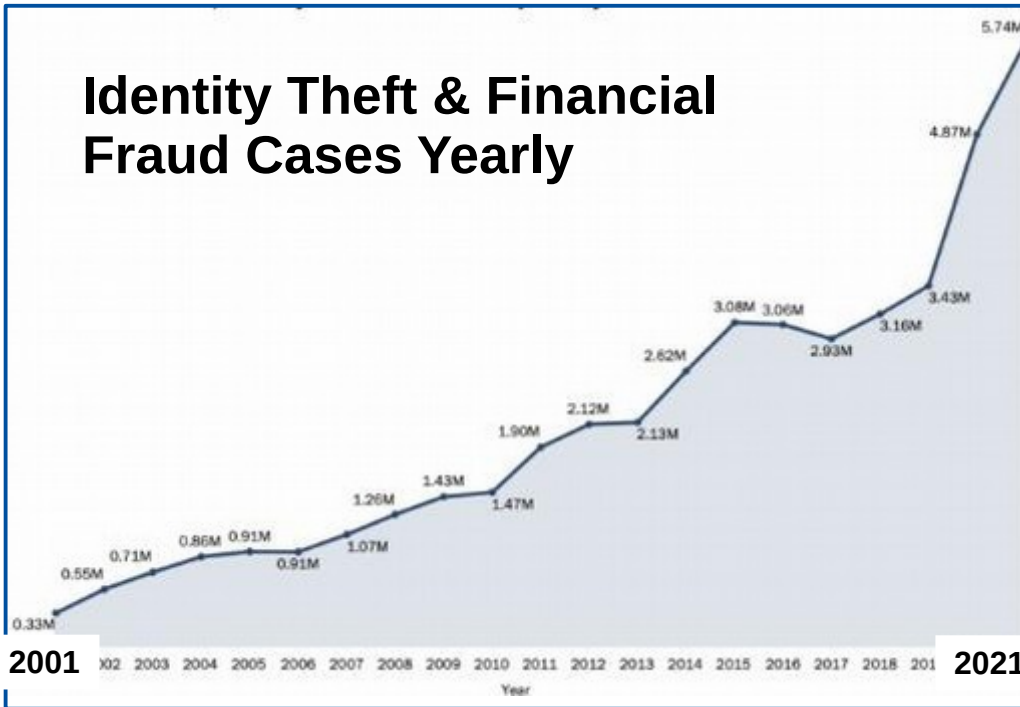
- Data collection
- Marketing
- CEO golden parachute of \$18.4 million

### Solutions:

- **Inventory, Security, Encryption, Logging** for PI
- Opt Out should be Default
- Change incentives
- Court relief for consumers (not arbitration)

# Identity Theft

## Identity Theft & Financial Fraud Cases Yearly



Source: FTC by way of <https://identitytheft.org/statistics/>

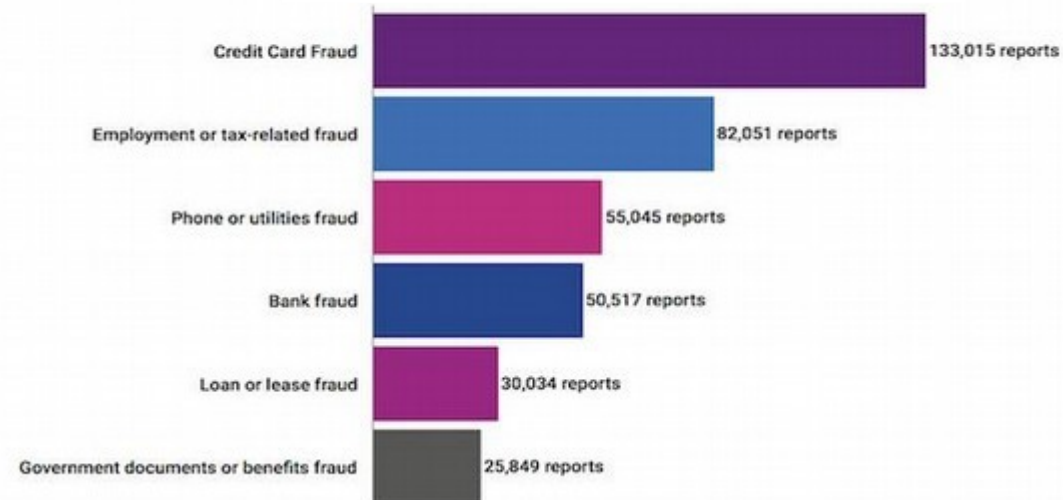


By BalooCartoons.com downloaded from nbestourous.blogspot.com

Corporations are fault,  
but ID theft costs **YOU**:

- Time (30 hrs avg)
- Money
- Emotional impact
- Credit effects on Jobs, Housing, Benefits
- etc

## Common Types of Identity Theft



Courtesy: [financialsamurai.com/15-identity-theft-warning-signs-and-statistics-you-cant-ignore/](https://financialsamurai.com/15-identity-theft-warning-signs-and-statistics-you-cant-ignore/)

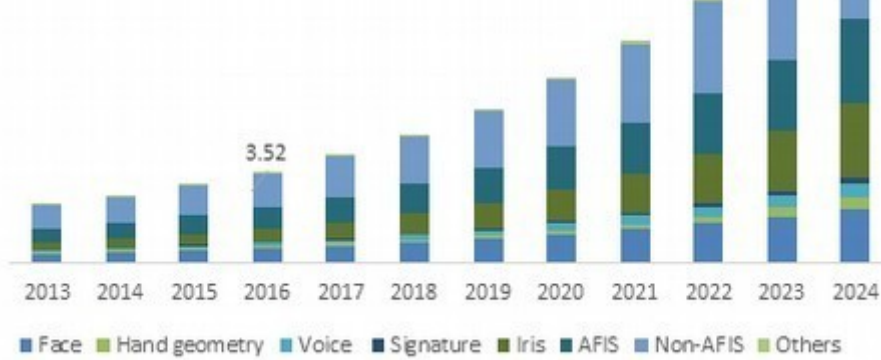


# Biometrics

- |             |               |             |
|-------------|---------------|-------------|
| DNA         | Word Choice   | Gate        |
| Face        | Signature     | Keystroking |
| Fingerprint | Dental        | Retina      |
| Voiceprint  | Writing Style | Hair        |
| Iris        | Handwriting   | Ethnicity   |
| Race        | Height/Wght   | Eye color   |
| Gender      | ...           |             |

## US Biometrics Market Growth

CAGR 20%

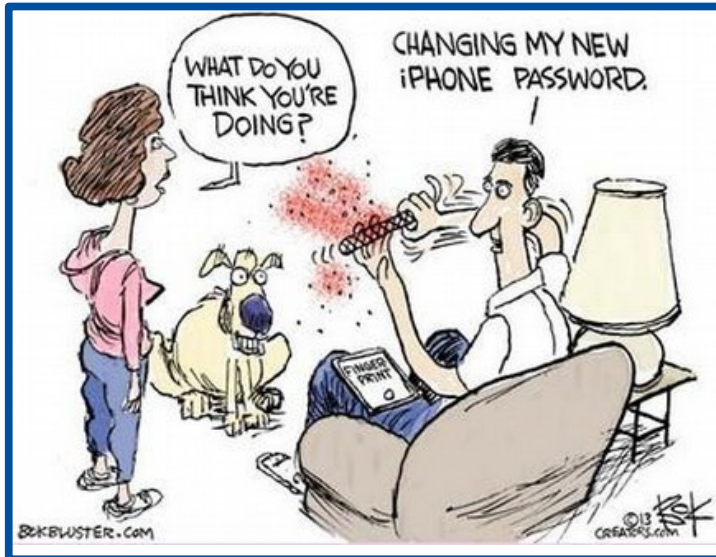


Courtesy: Global Market Insights @ gminsights.com

**Companies & Govt's**  
***really* want your**  
**biometrics !**



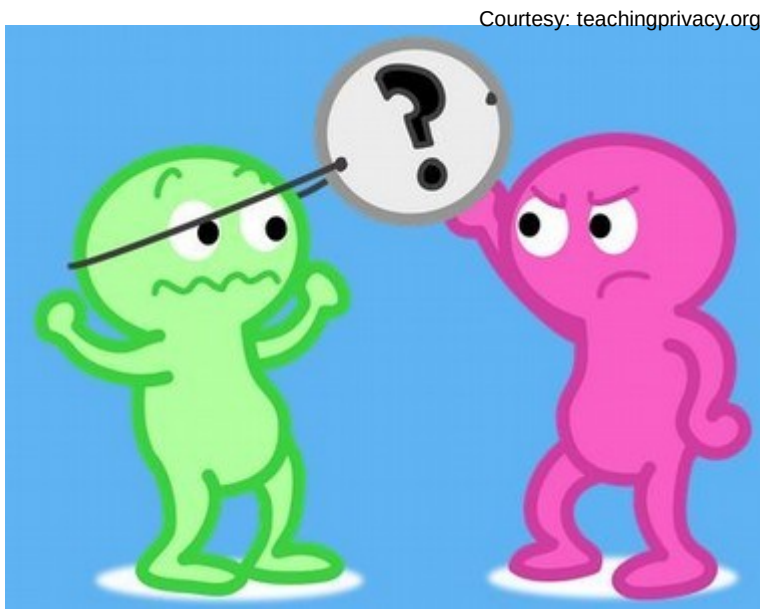
Courtesy: biometrics.maignuet.org



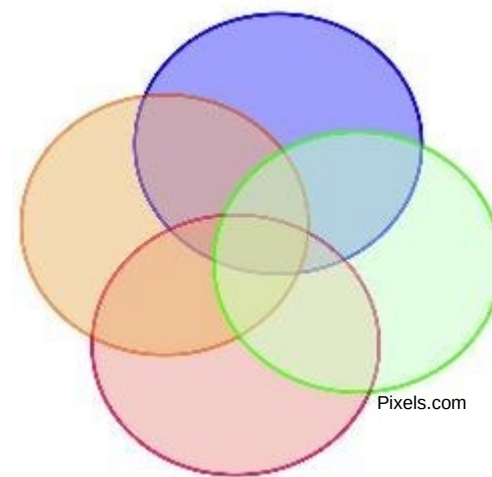
**Stealing biometrics is fun!**

# Anonymity ?

***“There’s No Such Thing as Anonymous Data” – HBR***



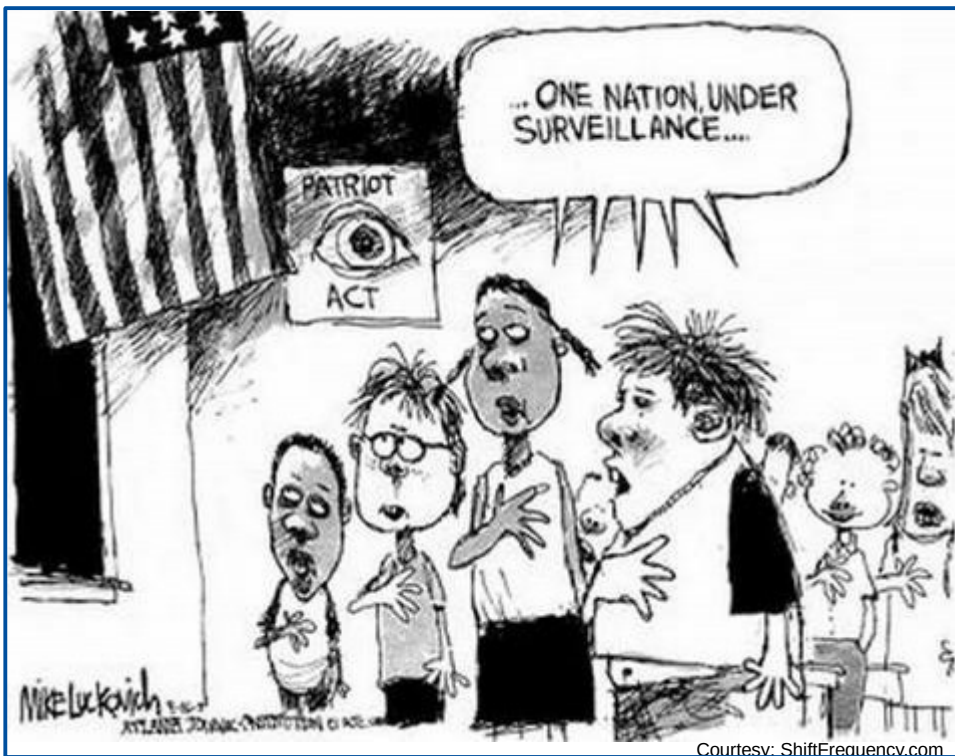
***Anonymous No Longer***










**Intersecting datasets  
de-anonymizes**

**You can be anonymous on the internet. Not against a ubiquitous surveillor.**

# School Panopticon → Training Digital Peons



**We have outsourced 24 x 7 data collection on our kids to private companies**

- Without consent
  - Cameras everywhere (> 90% of HS & MS)
  - Facial recognition soon
  - Complete monitoring & data collection
  - Social Media 
  - Chromebook, G Suite 
  - Judge all they type 
  - Confiscate student IP?
    - presumption of guilt 
  - College  
  - Companies get student data 
  - Police integration
  - FERPA & COPPA are ineffective
- Logos Courtesy: their companies

**- Our kids never type a private thought**  
**- Will this data follow them for their entire lives ?**  
**Solution: National standards for Ed Tech Privacy.**  
**Federal Licensing ? Educational Consortia Builds Tools ?**

Read: [www.theguardian.com/world/2019/oct/22/school-student-surveillance-bark-gaggle](http://www.theguardian.com/world/2019/oct/22/school-student-surveillance-bark-gaggle) [www.eff.org/deeplinks/2020/02/schools-are-pushing-boundaries-surveillance-technologies](http://www.eff.org/deeplinks/2020/02/schools-are-pushing-boundaries-surveillance-technologies)  
[www.cbsnews.com/news/google-education-spies-on-collects-data-on-millions-of-kids-alleges-lawsuit-new-mexico-attorney-general/](http://www.cbsnews.com/news/google-education-spies-on-collects-data-on-millions-of-kids-alleges-lawsuit-new-mexico-attorney-general/)  
[www.csmonitor.com/Technology/2018/09/13/Social-media-giants-now-face-legal-action-from-violating-children-s-privacy](http://www.csmonitor.com/Technology/2018/09/13/Social-media-giants-now-face-legal-action-from-violating-children-s-privacy) Vista Equity Partners – predictive modeling



# Your Shopping Experience



- Bluetooth tracking
- Facial Recognition (some stores)

1,400 buyers

84.51 (data broker)  
Kroger Personal Finance  
Kroger Precision Mkting

+  
purchases

May collect -

- PI
- Card & Bank Act Numbers
- Financial
- Health info
- Device fingerprint
- Demographics
- Behavioral analysis
- Purchase history
- Location

Meta, Google,  
Bing, Pinterest,  
Snapchat



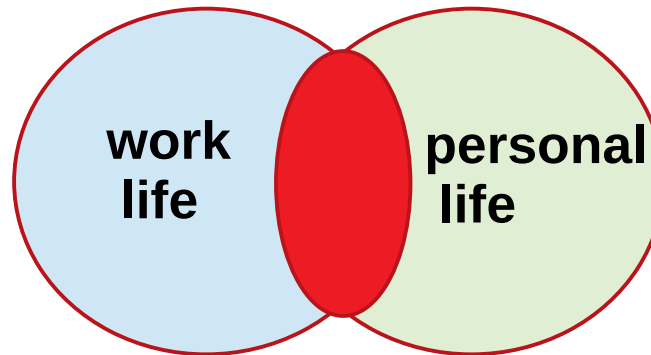
# Employer Surveillance

In most states, anything goes...

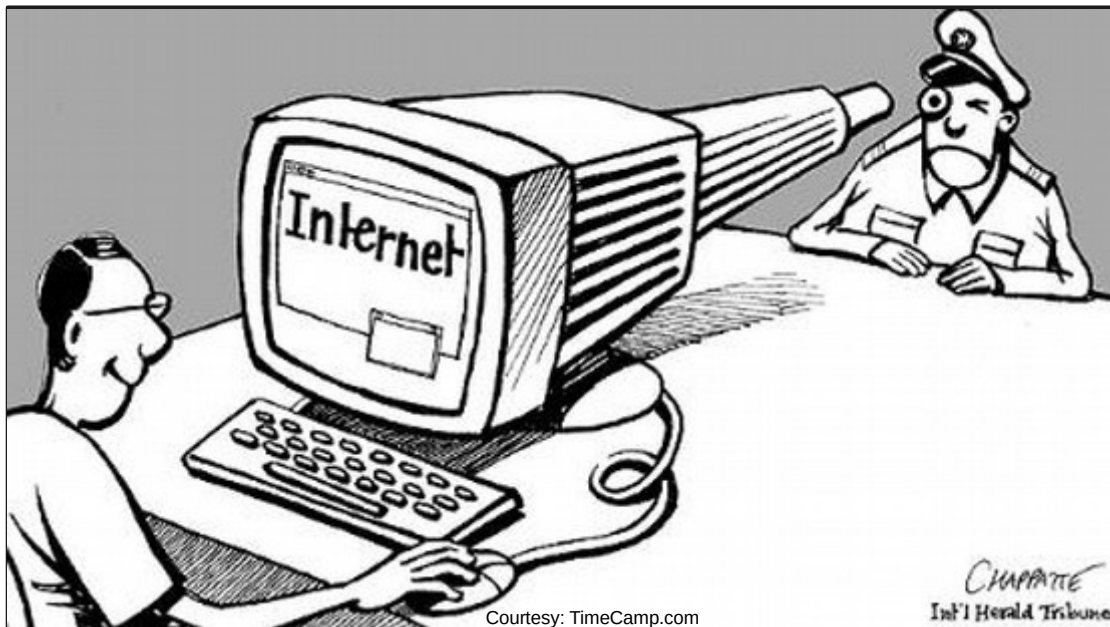


Courtesy: InformationWeek

**Problem: Our Work and Private lives overlap**



**How ?**



Courtesy: TimeCamp.com

- Software monitoring
- Internet usage
- Keylogging
- Email
- Phone & voicemail
- Video
- Location
- Badges
- Social media
- Blogs / forums

**Studies show a little monitoring is beneficial, too much is counterproductive**

# Your Car is a Privacy Nightmare!

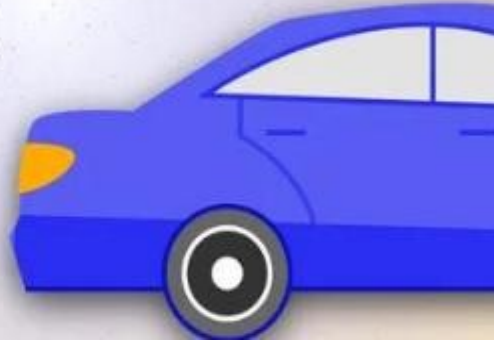
What has four wheels, collects your *sexual activity data* and sells your *personal information*?

Probably your car.

**25 car brands tested**  
**25 car brands failed**

\*Privacy Not Included

mozilla



- Car is a computer you sit in
- Reports to it's "real owner"
- Cameras watch you & the road
- Audio too
- "Consent" is buying the car ... or just riding in it!
- You can't access "your" data
- And your data is not encrypted and hacked ! (VW, Toyota, M-Benz...)

Read: The Mozilla Report at: <https://foundation.mozilla.org/en/privacynotincluded/categories/cars/>

**Includes biometrics, health data, sexual activity & orientation, conversations, visuals, driving behavior, location tracking . . .**

**"Vehicle Data Hubs" collate  
and sell your info**

More: <https://foundation.mozilla.org/en/privacynotincluded/articles/its-official-cars-are-the-worst-product-category-we-have-ever-reviewed-for-privacy/>

# Wearables -> Let's Monitor Your Body!

- **No HIPAA protections !**
- Who gets the data?
- Security?
- Kept for how long?
- Future Use?



**Kids are tracked too**

Courtesy: TechCrunch.com

**Once you give your data out ...**



# Let's Monitor You at Home!



Courtesy: Amazon

Voice assistants, TVs, toys, doorbell, vacuums, cells, computers, lights, thermostats, gas & electric meters, Nest, appliances (refrig, microwave, washer, dryer, more), baby monitors, gameboxes, wearables, and more!

Nest Cam Indoor security camera  
Plug-in-and-go security.

The Nest Cam Indoor security camera is designed to help you look after your home and family – even when you're away.



**BUY NOW**

Courtesy: cropped from Amazon.com



Courtesy: Samsung.com



Courtesy: Sharkninja



Courtesy: Cloudwash



Photo: James Pace-cornsilk/Washington Post  
Eye: EvolutionaryNews.org



Courtesy: Amazon



Courtesy: engadget.com, ear: singularityhub.com



Courtesy: TheStar.com



Courtesy: Amazon.com



Courtesy: NakedSecurity.sophos.com



Courtesy: Amazon.com



TV: costco.com Ear: singularityhub.com



55 © H. Fosdick Courtesy: Komando.com



Courtesy: Motorola

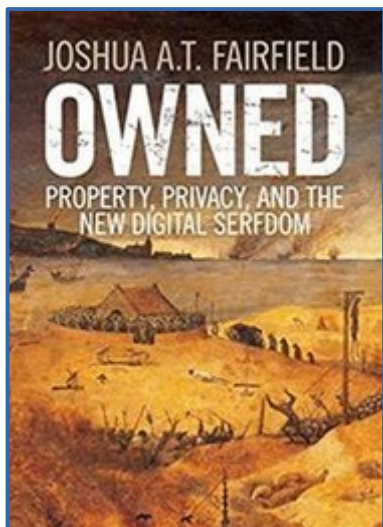
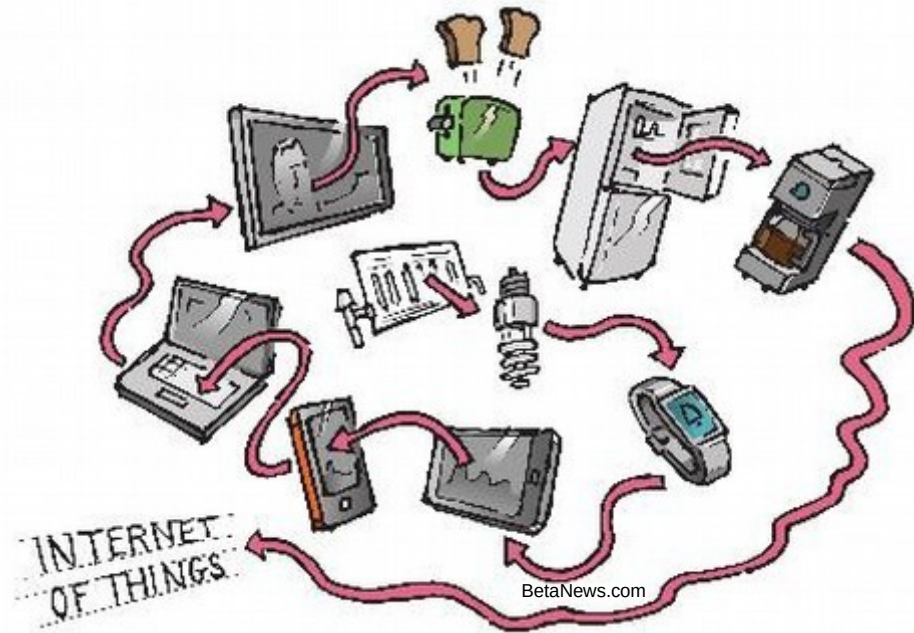


# Internet of Things (IoT)

## + Features & Convenience

- Every device a monitor
- Sensors everywhere (video, audio ...)
- Invading your home (appliances)
- Invading you (wearables)

- Privacy nightmare
- Security ... updates ?
- *“Internet Pollution”*
  - Botnets for spam, DDOS, bitcoin mining, Adsense, manipulate polls/games, spread malware, IRC attacks, more...



Courtesy: Amazon

**Solutions:** Opt-out & ability to turn off web connect

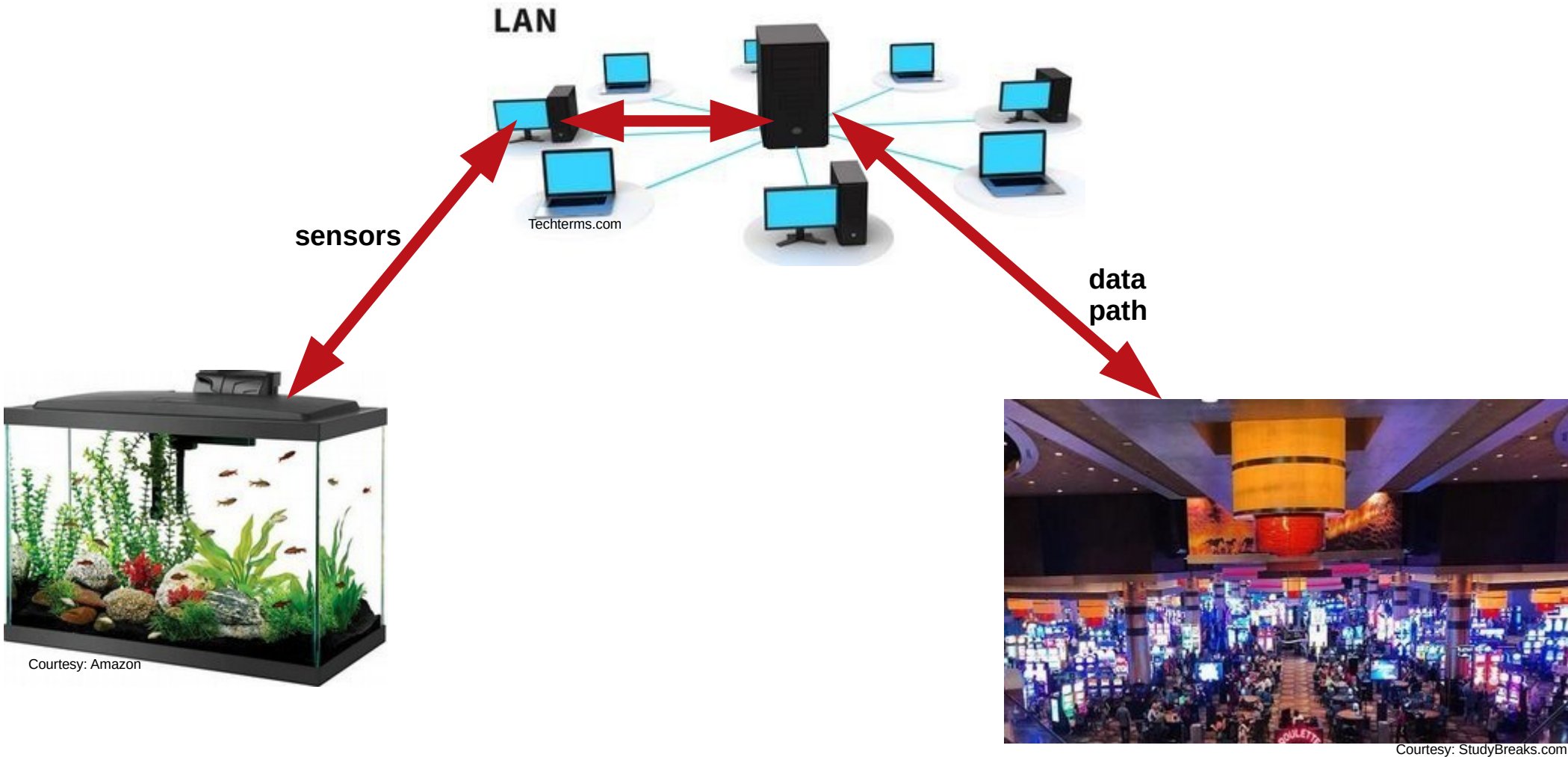


US Cyber Trust Mark

Read: [www.insiderintelligence.com/insights/iot-security-privacy/](https://www.insiderintelligence.com/insights/iot-security-privacy/) [https://link.springer.com/chapter/10.1007/978-3-030-82786-1\\_11](https://link.springer.com/chapter/10.1007/978-3-030-82786-1_11)  
<https://www.technologyreview.com/2022/12/19/1065306/roomba-irobot-robot-vacuums-artificial-intelligence-training-data-privacy/>

“Internet Pollution” term coined by H. Fosdick

# Hacking IoT: from Fish Tank to Casino



Courtesy: Amazon

Courtesy: StudyBreaks.com

**IoT = Security & Privacy Nightmare**

Read: [www.washingtonpost.com/news/innovations/wp/2017/07/21/how-a-fish-tank-helped-hack-a-casino/](http://www.washingtonpost.com/news/innovations/wp/2017/07/21/how-a-fish-tank-helped-hack-a-casino/)

# TikTok – Data Access is a red herring

## – China can buy any data...

- Acxiom
- Experian
- Corelogic
- Epsilon
- Equifax
- others

## – Or sell us devices...

- Huawei routers etc
- Drones
- Chips, Computer hardware
- Cell phones (7 of 10 come from China)

## – Or just steal it...

- Equifax 145m
- US Office Pers Mgmt 2m
- Anthem 78m
- Marriott 500m



Logos courtesy of the companies



**Solutions: (1) regulate data broker industry  
(2) security standards for PI**

**Skewed Search  
is a valid concern**





Flag Courtesy: Sweden

# Sweden – Cashless Society

Pay by **(1) Mobile App** or **(2) Card**

- + Tracks ALL transactions
- + No privacy
- + No more underground economy
- + No more tax evasion
- + Saves / makes companies money



VS.



Courtesy: Forrester Research



Courtesy: Janerik Henriksson/TT



Courtesy: Fredrik Sandberg/TT

**The ultimate corporate / government dream !**

**FedNow – Will US resist?**



# Your Life-long Personal Database



How will this data be used against you in future ?

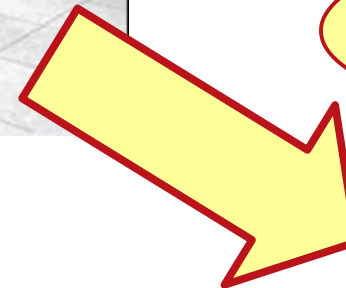
(Only credit data ages out by federal law)



Courtesy: Bibliotecha Alexandrina via Bibalex.org

## The “Digital You”

- in databases
- in communications
- behavioral profiles



“I used to be free !”



Are you free in a society with surveillance and forever data ?

# III. Gov't Surveillance



I support our gov't employees  
(DHS, NSA, FBI, TSA, CIA, police ...)

My criticisms are not of them!

--> What I'm talking about are policies



### Cautions :

- Secrecy !
- Programs are disguised
- Confusion is intentional

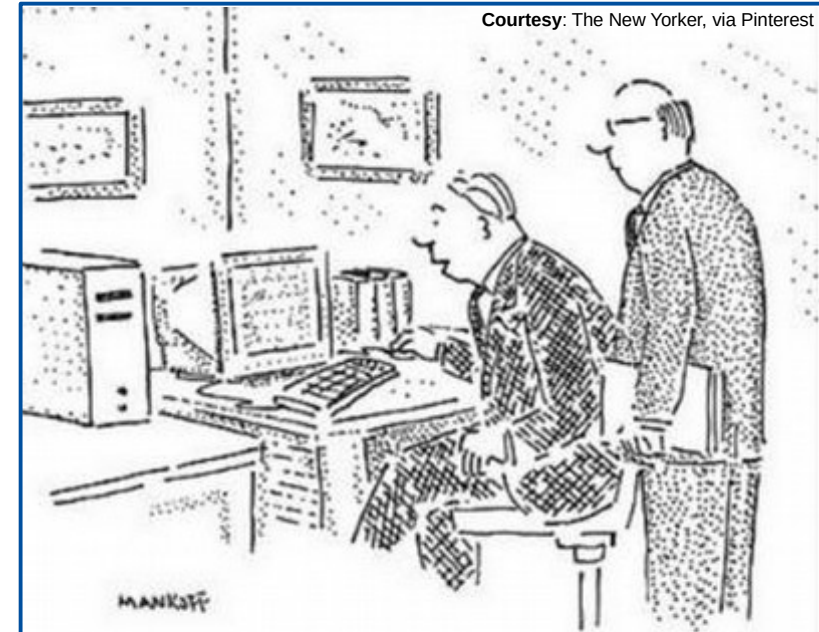
# National Security vs Personal Security

*Security of the Nation*

vs

*Security of 330 million individuals*

- Gov't fights encryption (cells, emails, texts, etc)
- NSA keeps backdoors & zero-days secret
- FBI seizes data w/o warrant (NSLs, gag orders)
- Mass search & surveillance
- Stolen NSA tools used against us  
(WannyCry, EternalBlue...)
- No due process for:
  - Blacklists
  - NSL's & gag orders
  - Civil asset forfeiture



*No, I'm not backing up our files—I'm just assuming that the N.S.A. is making copies."*

**"The NSA is willing to compromise the security of everything to get what they want"**

**– Schneier**

**Do such policies make you more secure ?**



# Mass Search is Unconstitutional

## US Constitution – 4<sup>th</sup> Amendment –

*“The right of the people to be **secure in their persons, houses, papers, and effects** ... shall not be violated ... **but upon probable cause** ... describing the place to be searched, and the persons or things to be seized.”*

**“General Warrants” are unconstitutional**

TOP SECRET//SI//ORCON//NOFORN

Hotmail, Google, skype, paltalk, YouTube, Gmail, facebook, YAHOO!, AOL, mail

(TS//SI//NF) FAA702 Operations  
Two Types of Collection

**Upstream**

- Collection of communications on fiber cables and infrastructure as data flows past. (FAIRVIEW, STORMBREW, BLARNEY, OAKSTAR)

**PRISM**

- Collection directly from the servers of these U.S. Service Providers: Microsoft, Yahoo, Google, Facebook, PalTalk, AOL, Skype, YouTube, Apple.

**You Should Use Both**

TOP SECRET//SI//ORCON//NOFORN

Courtesy: US govt via aclu.org

TOP SECRET//SI//ORCON//NOFORN

Hotmail, Google, skype, paltalk, YouTube, Gmail, facebook, YAHOO!, AOL, mail

(TS//SI//NF) PRISM Collection Details

**Current Providers**

- Microsoft (Hotmail, etc.)
- Google
- Yahoo!
- Facebook
- PalTalk
- YouTube
- Skype
- AOL
- Apple

**What Will You Receive in Collection (Surveillance and Stored Comms)?**  
It varies by provider. In general:

- E-mail
- Chat – video, voice
- Videos
- Photos
- Stored data
- VoIP
- File transfers
- Video Conferencing
- Notifications of target activity – logins, etc.
- Online Social Networking details
- Special Requests

Complete list and details on PRISM web page: Go PRISMFAA

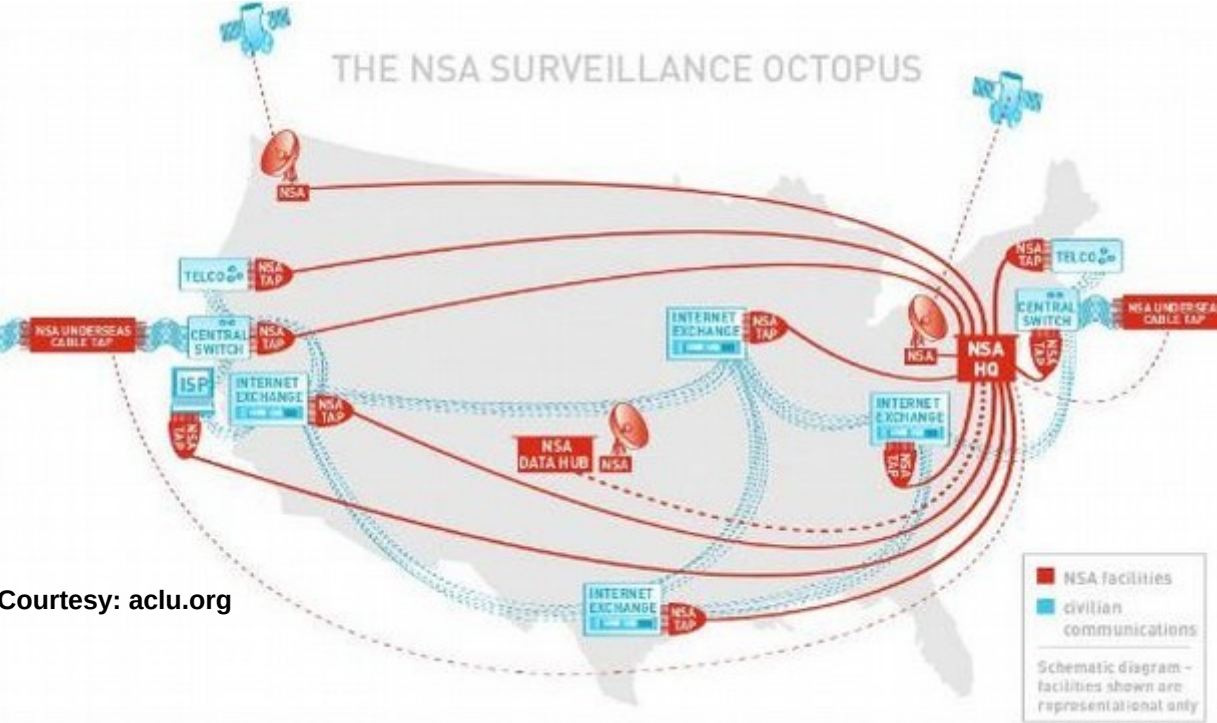
TOP SECRET//SI//ORCON//NOFORN

Slide showing companies participating in the Prism program and the types of data they provide. National Security Agency, public domain, via Wikimedia Commons

Courtesy: US govt via aclu.org

**“Washington is violating the privacy rights guaranteed to us by the 4th Amendment.”**  
– Rep. Jim Sensenbrenner, Patriot Act author

# Data Mining All Your Communications



Courtesy: aclu.org

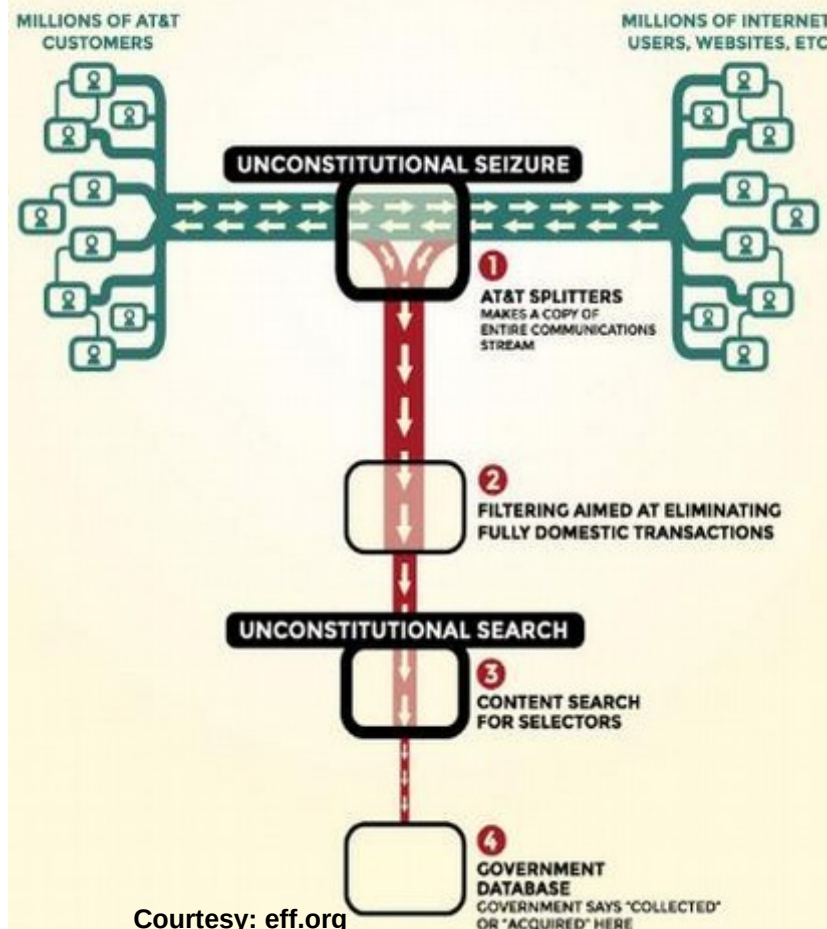
## Surveillance programs include:

Prism, Boundless Informant, Mystic, Carnivore, Bullrun, FAA702 Upstream, Muscular, Turbine, Quantumhand, Fairview, Stormbrew, Blarney, Oakstar . . .

## NSA purchased data includes:

your browsing habits, location . . .

## DOMESTIC INTERNET BACKBONE SURVEILLANCE



Courtesy: eff.org

Read: [www.wired.com/2015/03/data-and-goliath-nsa-metadata-spying-your-secrets/](http://www.wired.com/2015/03/data-and-goliath-nsa-metadata-spying-your-secrets/) [eff.org](http://eff.org) [aclu.org](http://aclu.org) [epic.org](http://epic.org) [pogo.org](http://pogo.org)  
[www.theguardian.com/world/interactive/2013/nov/01/snowden-nsa-files-surveillance-revelations-decoded#section/5](http://www.theguardian.com/world/interactive/2013/nov/01/snowden-nsa-files-surveillance-revelations-decoded#section/5)  
 Charlie Savage's *Power Wars*, [aclu.org/files/pdfs/eavesdropping101.pdf](http://aclu.org/files/pdfs/eavesdropping101.pdf) [https://www.theregister.com/2024/01/26/nsa\\_browser\\_records/](https://www.theregister.com/2024/01/26/nsa_browser_records/)  
[www.pbs.org/newshour/show/nsa-collects-word-for-word-every-domestic-communication#transcript](http://www.pbs.org/newshour/show/nsa-collects-word-for-word-every-domestic-communication#transcript)

# Where Does Gov't Get This Authority ?

I'll *make*  
this fit!

Patriot Act  
sec 215



EO12333

FISA  
702



*“If the history of these surveillance programs teaches us anything, it’s that the government can subvert seemingly clear legal standards ... to accommodate its desire [for] ... surveillance...”*

– Jake Laperruque

Courtesy: [www.dreamstime.com](http://www.dreamstime.com)

Read: [www.pogo.org/analysis/2019/06/the-history-and-future-of-mass-metadata-surveillance](http://www.pogo.org/analysis/2019/06/the-history-and-future-of-mass-metadata-surveillance)

# FISA Court

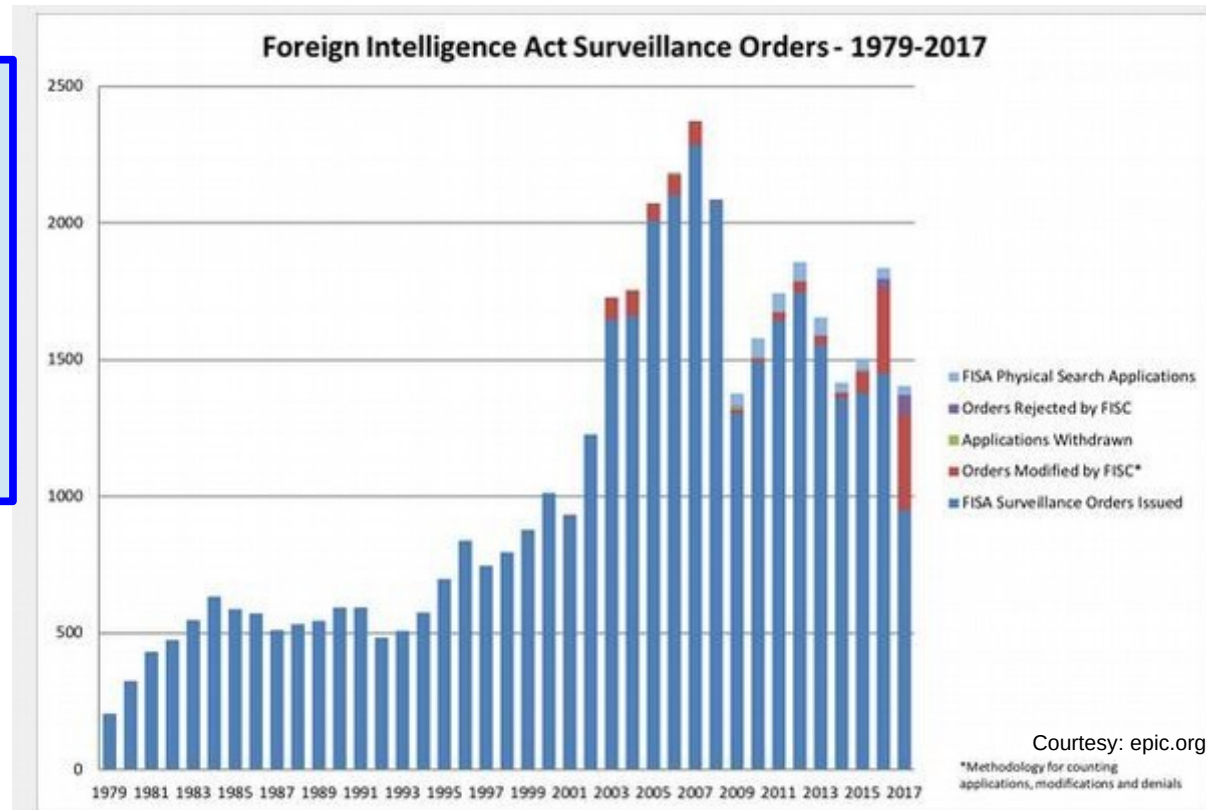
## A Secret Court that makes secret law

- 1 judge decides
- Hears only govt's side
- Can't investigate govt claims
- Rejects 0.03% of govt requests

This is how we gutted the 4<sup>th</sup> Amendment

## USA Freedom Act (2015)

- Court to send changes in law to Congress
- May hear other side
- Minimal investigative ability
- **Doesn't stop mass surveillance**





# Mass Surveillance Doesn't Work

**Example:**  
**Phone Call Metadata**



Courtesy: bized.aacsb.edu

**Effective at destroying your privacy (Principle of “Big Data”)**

*“With enough metadata we don’t need content” – Michael Hayden*

**Not Effective at finding terrorists !**

**Pres. Obama: “50 terrorist plots foiled” → Turned out to be one ... a donation!**

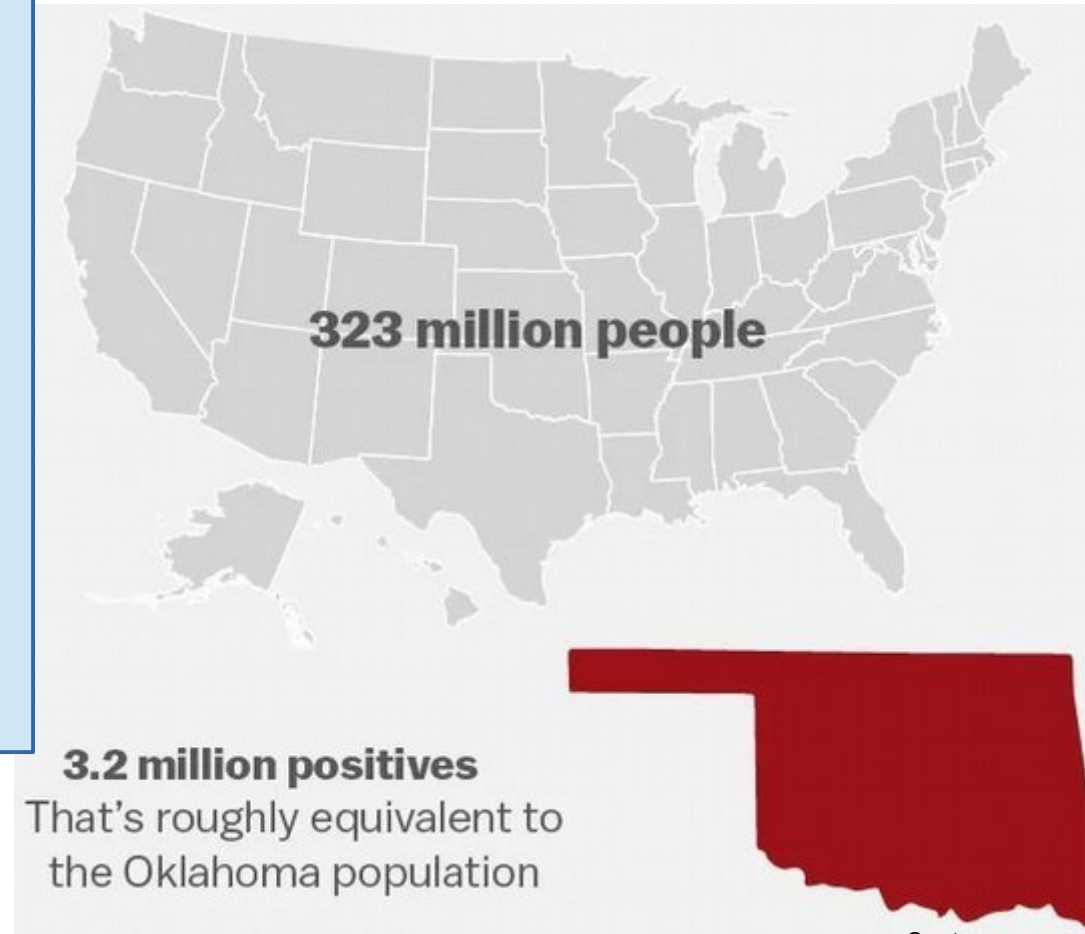
Read: White House Report (2013)  
Privacy & Civil Liberties Oversight Board (2014)  
Charlie Savage (2015)

→ “Not essential in preventing attacks”  
→ Not one terrorist found  
→ FBI calls NSA tips worthless

# Why Failure? The “Percentage Fallacy”

- 99% accuracy
- Assume 1 of 100,000 is a terrorist
- Nationwide 3,230 terrorists
- Misses 32 terrorists (false negatives)
- Identifies 3.23 million false positives

**The 3,198 terrorists are hidden in the 3.23 million false positives!**



***For mass surveillance, 99% accuracy is not enough***

# Surveillance Erodes Freedom



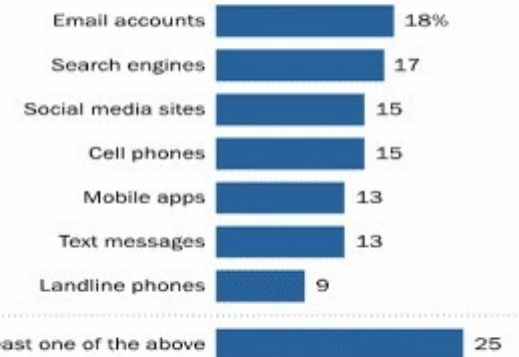
Courtesy: "Feeling of Being Watched" film

**Chilling Effect or  
Self-Censorship**

on freedom of speech,  
press,  
religion  
assembly

## Surveillance Programs Prompt Some to Change the Way They Use Technology

Among the 87% of U.S. adults who have heard of the government surveillance programs, the percentage who have changed their use of ... "a great deal" or "somewhat"



Source: Survey of 475 adults on GfK panel November 26, 2014-January 3, 2015.

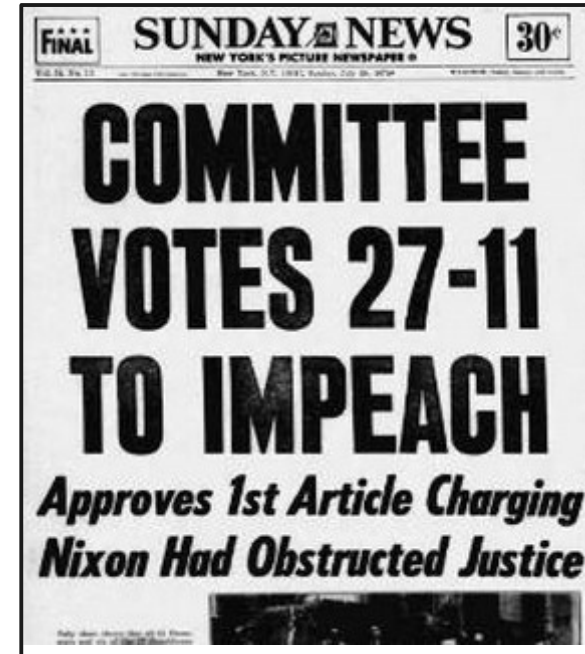
PEW RESEARCH CENTER

Courtesy: Pew.org

# Democracy Requires Privacy

## Impeachment indictment:

1. Violated opponent's privacy (the Democratic party)
2. Inappropriate data cross use (hassled opponents w/ IRS)



twitter.com/beschlossdc/status/1022927554166943744



qz.com/1479020/could-trump-be-impeached-read-richard-nixons-articles-of-impeachment/

**“Trust Us” doesn’t work.**

That’s why we have:

- + Constitution
- + Bill of Rights
- + Division of powers between 3 branches
- + Checks & balances
- + Congressional oversight
- + Judicial review

...



# Democracy Requires Privacy

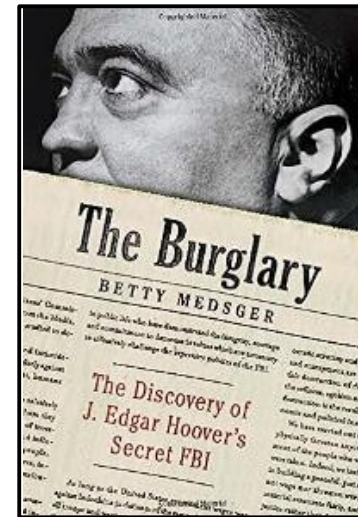
The guy Presidents couldn't fire ...



Courtesy: the Daily Beast reference below

- He blackmailed Presidents & Congress
- Conducted **illegal actions** against political opponents (COINTELPRO)
- Tried to get Dr. King to kill himself

...



We need security agencies! But "Trust Us" doesn't work.

# IV. Solutions



**Technology can assist,  
but the solutions are political**

**Status:**

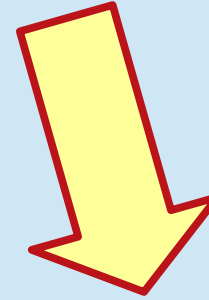
# We Are “Digital Peons”

- Your entire life is digitized
- You can not live a modern existence otherwise
- Your data is **appropriated**
- You don’t know how, when or where your personal data is used – or sold
- You can’t review accuracy
- You have no assurance it is secured



**Decisions critically affecting your life are made based on “*Secret Data*” ... and secret AI-based algorithms.**

# Your “*Digital Doppelganger*” Determines Your Life!



The Real You

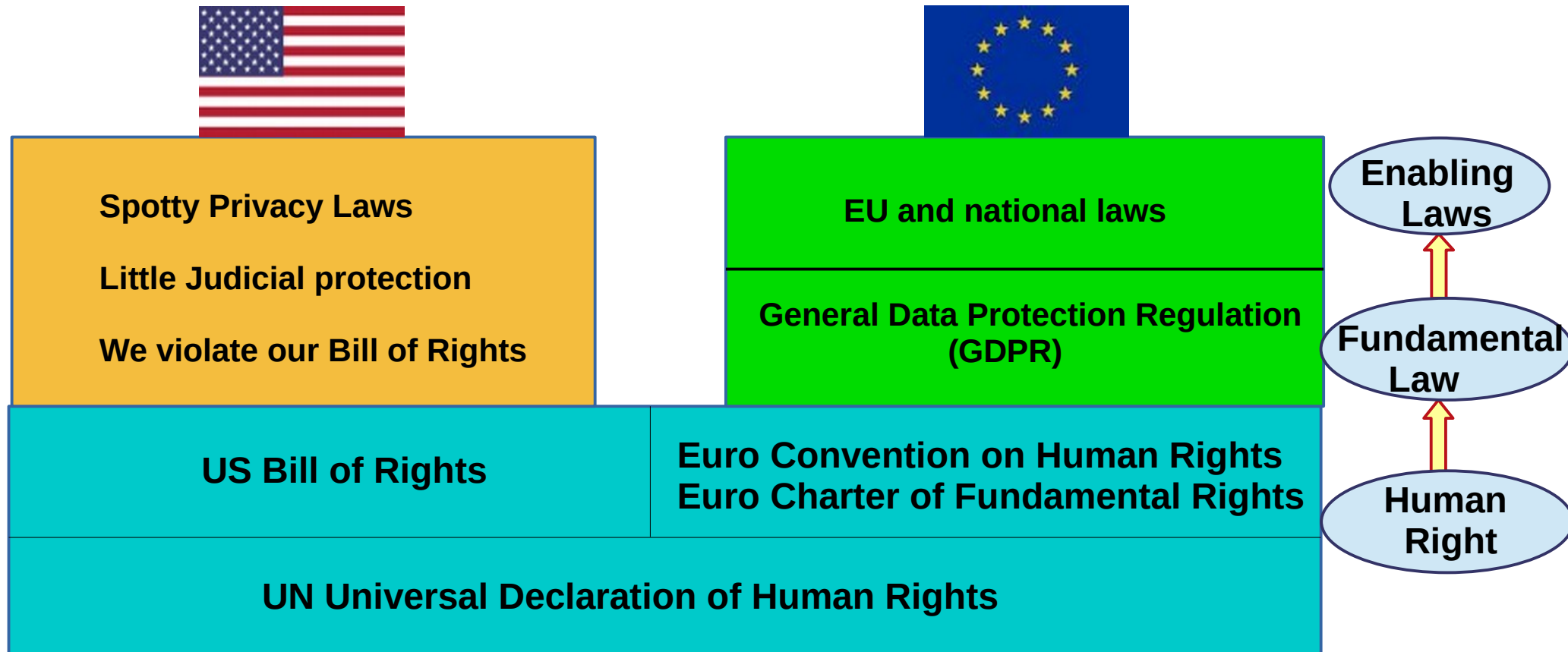


The Digital You

**And you don't even know him !**



# Solution: A “Privacy Architecture”



# General Data Protection Regulation (GDPR)



Courtesy Crownpeak.com

## Processor Obligations:

- Limited cross-use
- Security, encryption, logging standards for PI
- Actual penalties !
- Limit data gathered plus time constraints
- Must disclose data collection
- Anonymize data
- Keep processing records
- Compliance Officer
- Notify of data breach

## Subject Rights:

- Default is Opt-Out
- Requires Informed Consent
- Can withdraw it
- Can review his data
- Can correct data
- Can be forgotten (erase data)
- Can transfer data



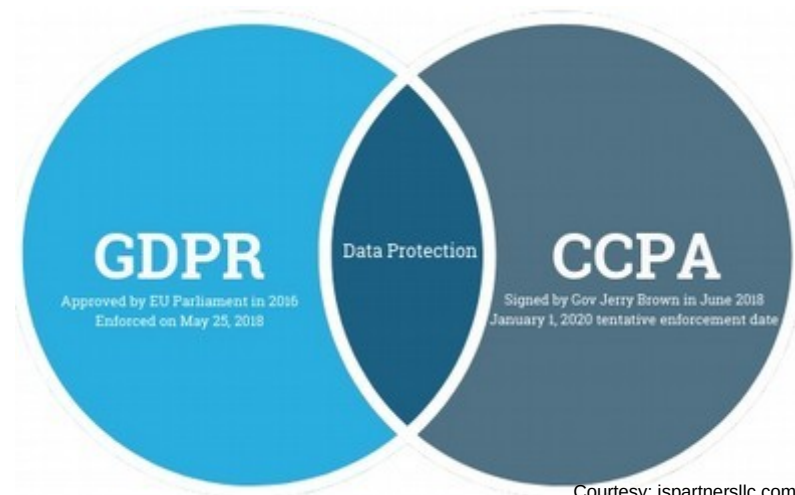
# Cal. Consumer Privacy Act (CCPA)

(CCPA 2018 amended by CPRA 2020, Delete Act 2023)

Courtesy: State of California

## Consumers can

- + See their data
  - + Delete their data
  - + Stop data sales
  - + Opt-out
- 
- Only applies to large companies
  - Only applies to collected data (not bought)
  - Default is still Opt-in
  - Excludes HIPAA, FCRA, GLB data
  - Limited ability to stop cross-use
  - No consumer lawsuits



	GDPR	CCPA
Scope	"Personal data" is: any information relating to or that can be used to identify a specific person. It does not include the "household" stipulation.	"Personal information" is anything that identifies, relates to, describes, is capable of being associated with or could be reasonably linked to a particular person or household.
Covered Entities	You don't technically need to be a "business" at all - you just need to control or process relevant information.	The CCPA defines a "business" as a for-profit legal entity or sole proprietorship.
Disclosure / Transparency Obligations	An entity is required to provide the identity and the contact details of the data controller, the recipients of that data, the legal basis and purposes for processing, the retention period, the right of access and more.	Under the CCPA, businesses need to inform consumers at or before the point of collection what information is being collected and why it's necessary.
Right of Access	The GDPR ALSO allows people to learn how long that information is being retained. The GDPR also has an additional "right to portability" in certain cases.	Both the GDPR and the CCPA give consumers the right to not only learn what information is being collected, but to also get a complete copy of that information.
Right to Deletion	The GDPR applies to ALL data concerning a data subject, no matter where it came from.	The CCPA, however, only applies to data collected FROM the consumer.
Right to Opt-Out	The GDPR, however, includes no such right. However, the GDPR is so strict in other areas that if a consumer didn't want you to store and sell their data, there are other techniques they could use.	At any moment, the CCPA allows people to opt out of a business' ability to collect or sell their personal data. At that point, a business is prohibited from doing anything meaningful with that data in any way.

**GDPR is better**

**... but it has an enforcement problem**



# Solutions – Corporate



Courtesy: stephentucker.net

- Impose privacy/security standards on software vendors
- IoT Privacy sticker (like Security one)
- IoT connect should be optional
- Enforcement that works!  
(right to sue)

## – 3 Keys –

- Opt-out as default
- No data Cross-use
- Data security/privacy stds

- **Need a fundamental right to privacy**
- Shift privacy burden to data holders from individuals
- **Stop Fake Consent**
  - **Opt Out should be the default**
  - Require *Informed Consent*
  - Fix consent under duress or w/o real choice
  - Eliminate bogus “Privacy” Policies
- Any entity holding PI must abide by certain rules:
  - **Data inventory**
  - **Security standards**
  - **Logging**
  - **Encryption** for PI
  - **Cross-use restrictions**
  - 2FA sb available *everywhere*
  - Sales restrictions
  - Subject’s rights (assent, review, correct... )
  - No data appropriation
  - 0-knowledge keys & authentication
  - **Disclose how algorithms use PI**
- Data broker regulation
- **Effective penalties** for violators
- Require encryption for consumer devices by default
- **Security & Privacy must be made priorities for coders**
- Deny mergers and enforce Anti-trust!
- Outsourcing and long contactor chains  
should NOT allow denial of responsibility
- You collect the data, you’re responsible for it!

# Solutions – Government



Courtesy: Ibis Support Centre

**Fear drove our laws after 9/11.  
Time for a course correction.**

- **Transparent rules required**
  - That's how democracy works
- **Due process required**
  - Blacklists
  - Borders
  - Civil asset forfeiture
  - Within 100 miles of the border
  - “Open Fields” doctrine
- Regulate Govt data access
  - Govt should declare what data it has or uses on Citizens
  - Ensure agencies don't read novel meanings into laws
  - No buying or trading for data you're can't collect!
  - No trading with GCHQ / 5-Eyes for info on US citizens
  - Rules for data cross-use between agencies
  - Fix over-classification

- **Adhere to the US Constitution**
  - **Stop domestic mass search & surveillance**
- **Oversight required for Top Secret America**
  - Congress
  - Judiciary
- **No NSLs, gag orders – these need a judge and warrant !**
- **Executive Orders are not sufficient for mass search**
- **Need real Judicial Oversight**
  - **Fix or eliminate FISA court**
  - Needs both sides represented effectively
  - Needs true investigative abilities
  - Needs to verify its legal interpretations are followed
  - Needs to report to Congressional committee
  - Fix judge selection & single-judge rulings
  - Still a secret court making secret law → **bad**
- **Balance national security and personal security**
  - Encryption for email, texting, cell phones
  - Stop weakening security for backdoors & zero-days
  - Stolen NSA tools used against us
  - No SSN for purchases over \$10,000
  - National BIPA for biometrics
- **Fix PCLOB (Privacy Civil Liberties Oversight Board)**
- **Need Privacy Czar or Agency or “CFPB” board**

# “Privacy” Legislation ?

## We Want:

- + Privacy
- + Control
- + Personal Security
- + Accountability for Harm



Images: People: interregemr.eu, Fake stamp: DreamsTime.com

***“The preferences of the average American have a near-zero... effect on public policy.”***

– Gilens & Page study

→ State privacy laws have proven this true.

## Corporations & Gov’t Want:

- Status quo (with tweaks)
  - Override state privacy laws
  - Restrictions they can circumvent
1. Opt-out as default
  2. Bogus consent
  3. Data cross-use



by Charles Schulz

**FAKE**

**Likely outcome → a Fake “Privacy” Law**



# Time to Update the Fairy Tale . . .



?

Questions ?

?



# V. Extra Slides

Good info that didn't fit



# Your TV Monitors You

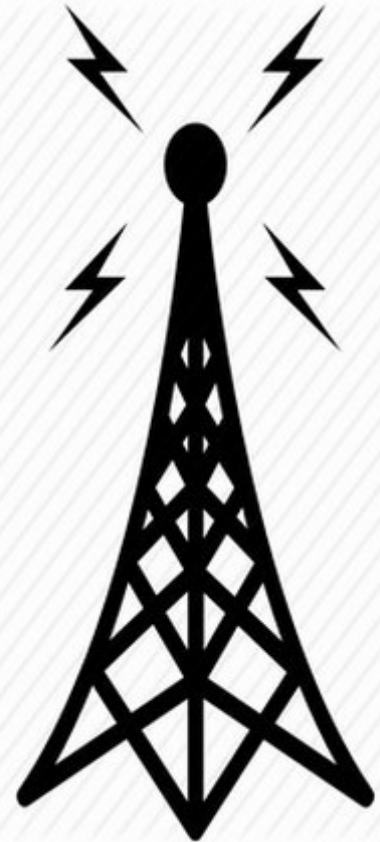


Courtesy: TV from Amazon and Vizio, Streamer from Amazon and Roku, antenna from Iconfinder.com

Streaming  
Services



Collects audio, video,  
and usage data



- Opt-in is default
- ACR takes 7,200 images per hour of what you watch (2/sec)
- Your data is correlated and sold

## What You Can Do:

- Change settings to Opt-out
- Avoid using TV as internet browser
- Secure your router
- Scandals & Hacking ==> FBI warning

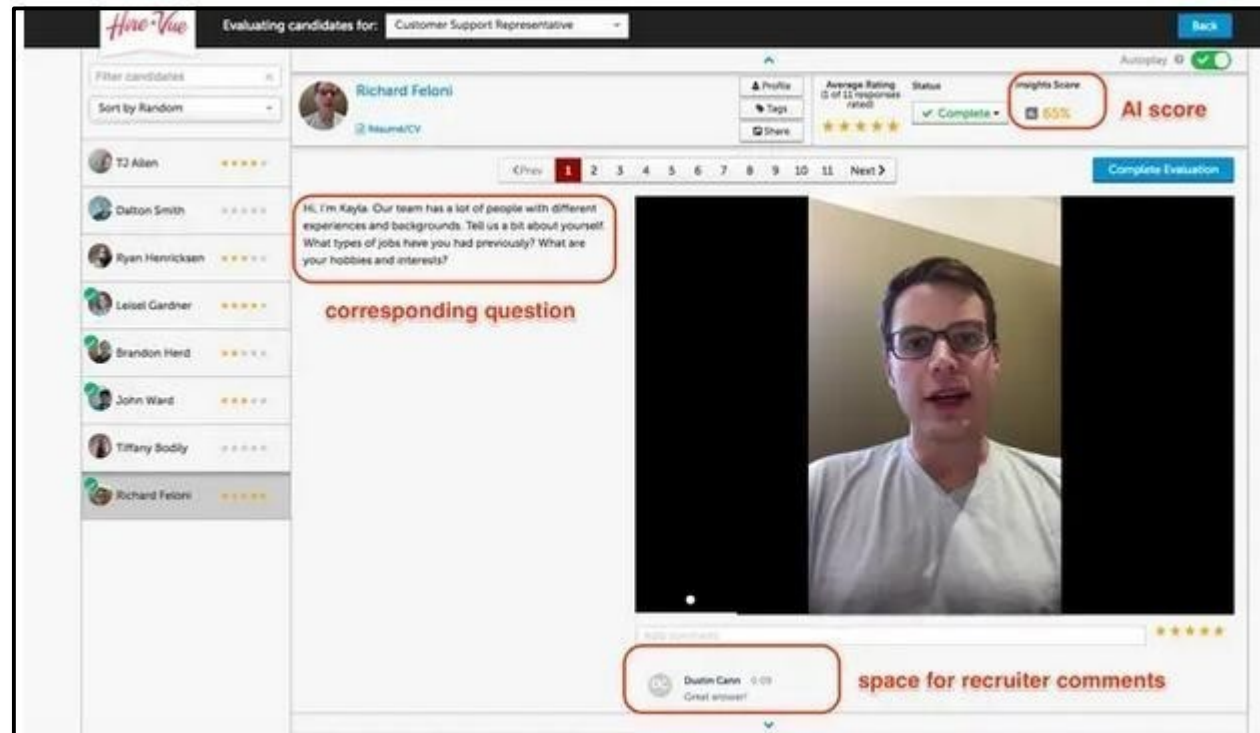
# Your Job Interview – With an Algorithm

## Employability Score from:

- Mannerisms
- Word choice
- Speaking voice
- Facial movement  
(some products)

*Everything except what you actually say!*

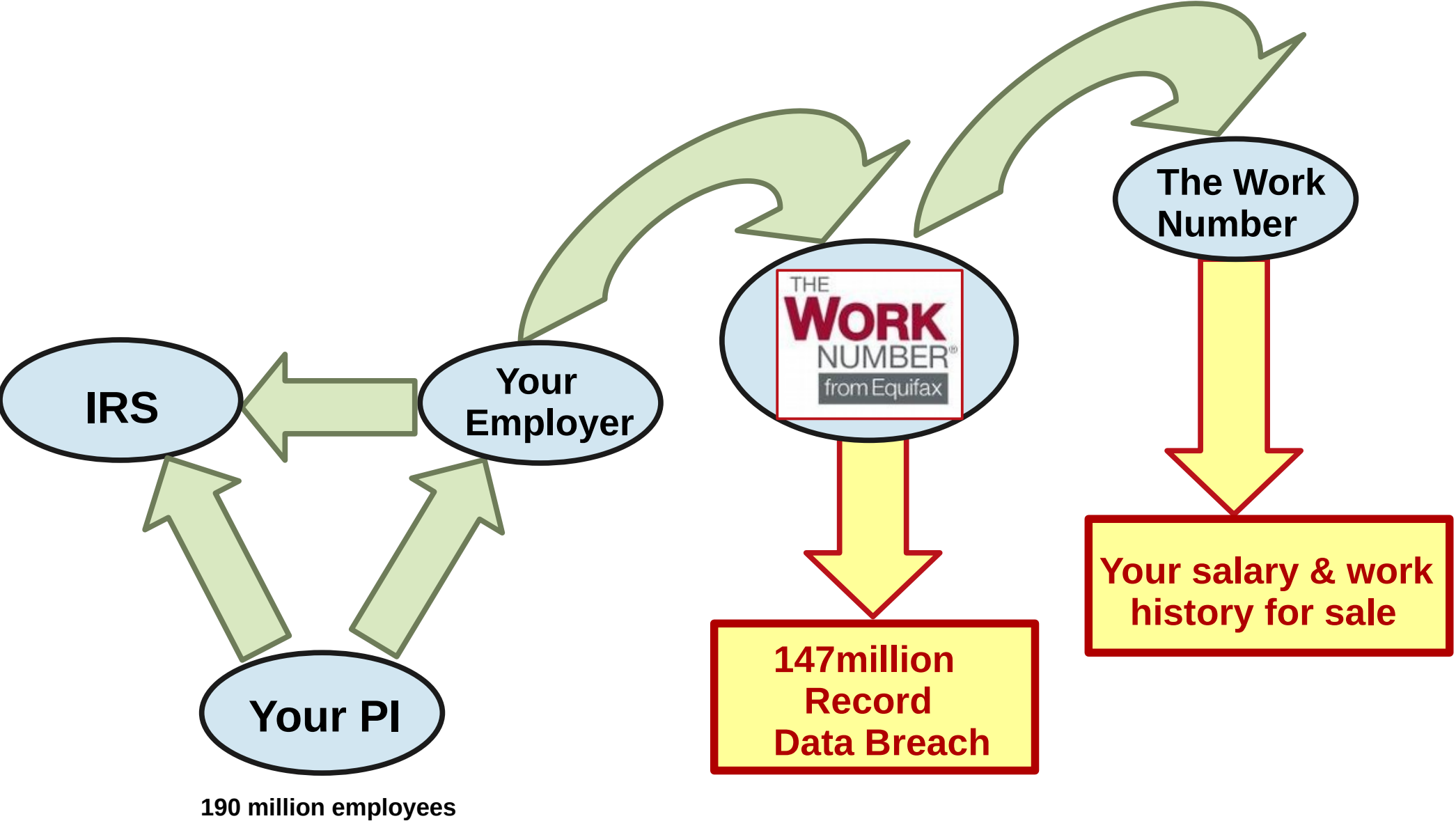
## The Recruiter's View:



HireVue via businessinsider.com

- Bogus tool ?
- Bogus Consent
- Will this be stored and used in future?

# Your Employer Sells Your Salary



190 million employees

**... and the company collecting it lost it in a data breach!**



# How Companies Handle Data Breaches



## Keeping Your Account Secure

We take cybersecurity very seriously and privacy is a fundamental commitment at AT&T.

...

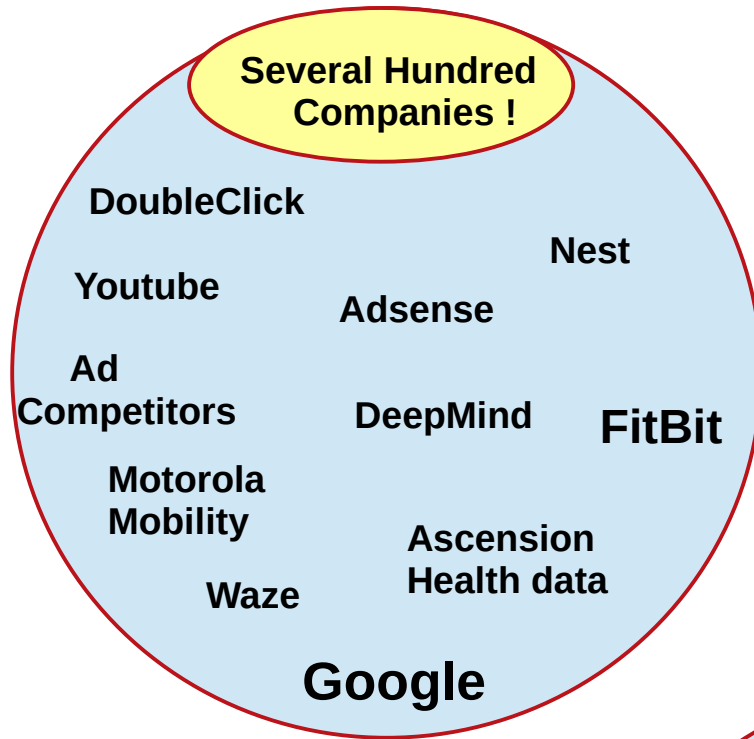
The information varied by customer and account, but may have included full name, email address, mailing address, phone number, social security number, date of birth, AT&T account number and passcode.

**7.6 million current customers, 67 million former customers**

**Why SSN, DOB to buy something?  
Why keep old data?  
Why pretend old data doesn't count?**

**Answer:  
Because we can!**

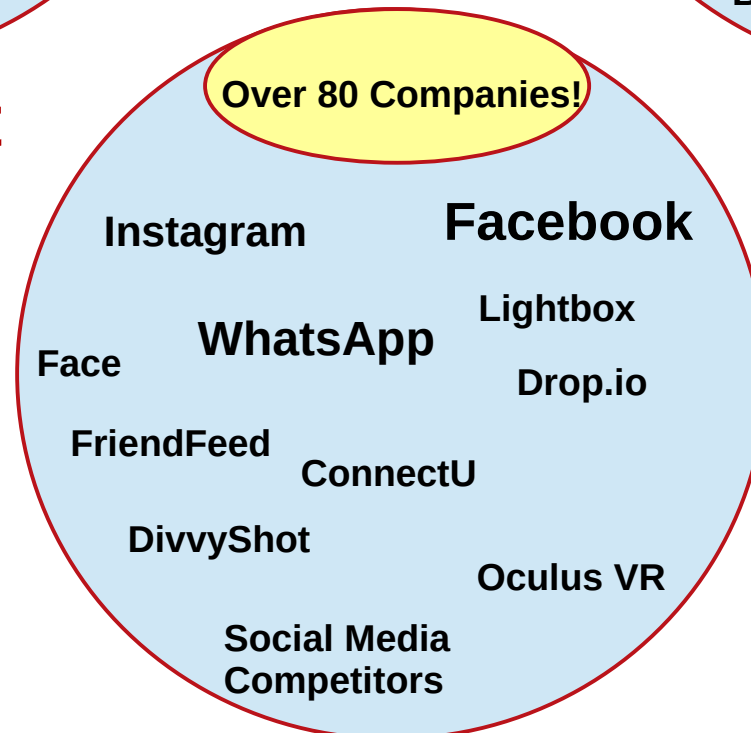
# Powerful Digital Monopolies



**Alphabet**



**Amazon**



**Meta**

## Results:

- Control of your PI
- Political power

## Solution:

- Deny mergers, buyouts
- Enforce anti-trust !

# Those Who Seize Your Privacy Know Its Value!

Courtesy: Getty Images via New York Times



*“If you have something that you don’t want anyone to know, maybe you shouldn’t be doing it in the first place.”*

– Eric Schmidt, ex-Google

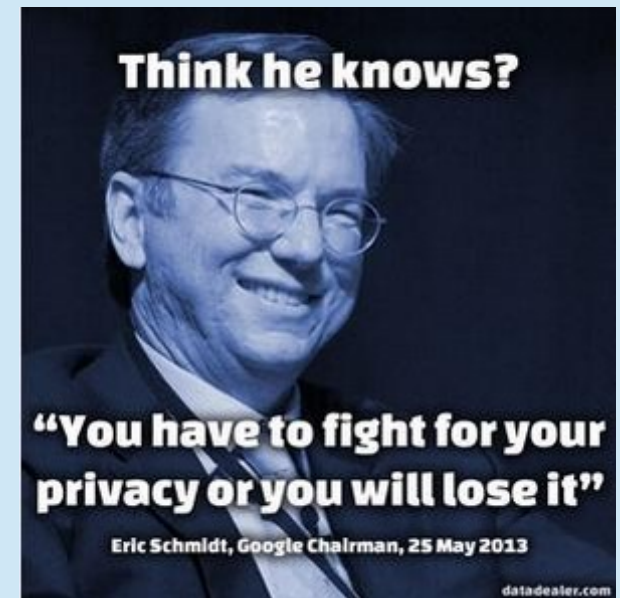
- Deletes google accounts critical of him
- Tried to delete record of his political donations
- Sicked his lawyers on mistress who posted about him

*“They trust me. Dumb f--ks.” – 2005*

*“We’re not forcing anyone to publicize any information about themselves”*

– Mark Zuckerberg, Meta

- Bought & trashed 4 houses next to his for \$100 million
- FB pays millions for his security
- Personal bodyguards
- FB has paid Billions for privacy violations



Courtesy: Datadealer.com

Sources: valleywag.gawker.com/eric-schmidt-thinks-his-privacy-is-more-important-than-1578667573 www.slideshare.net/Badams/sacson-school-2015 wired.com/story/facebook-ftc-fine-five-billion/slate.com/technology/2018/04/how-mark-zuckerberg-protects-his-own-privacy-online.html allthingsd.com/20110120/talking-schmidt-googles-ceo-in-his-own-words/ ← Schmidt quotes computerweekly.com/feature/Facebooks-privacy-U-turn-how-Zuckerberg-backtracked-on-promises-to-protect-personal-data cnbc.com/2018/03/facebook-ceo-mark-zuckerbergs-statements-on-privacy-2003-2018.html ← Zuck quotes

# Who Loses Privacy ?

## Those who lack:

- Expertise
- Time
- Money

The old, the young, the poor, the uneducated, the vulnerable



Meta / Facebook



Google



IoT



Cell apps



Opt-in defaults



More!



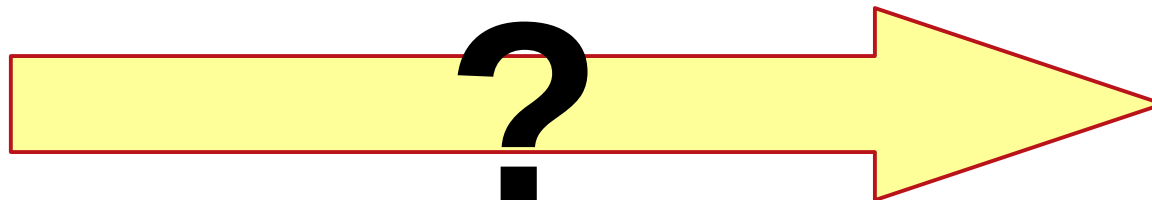
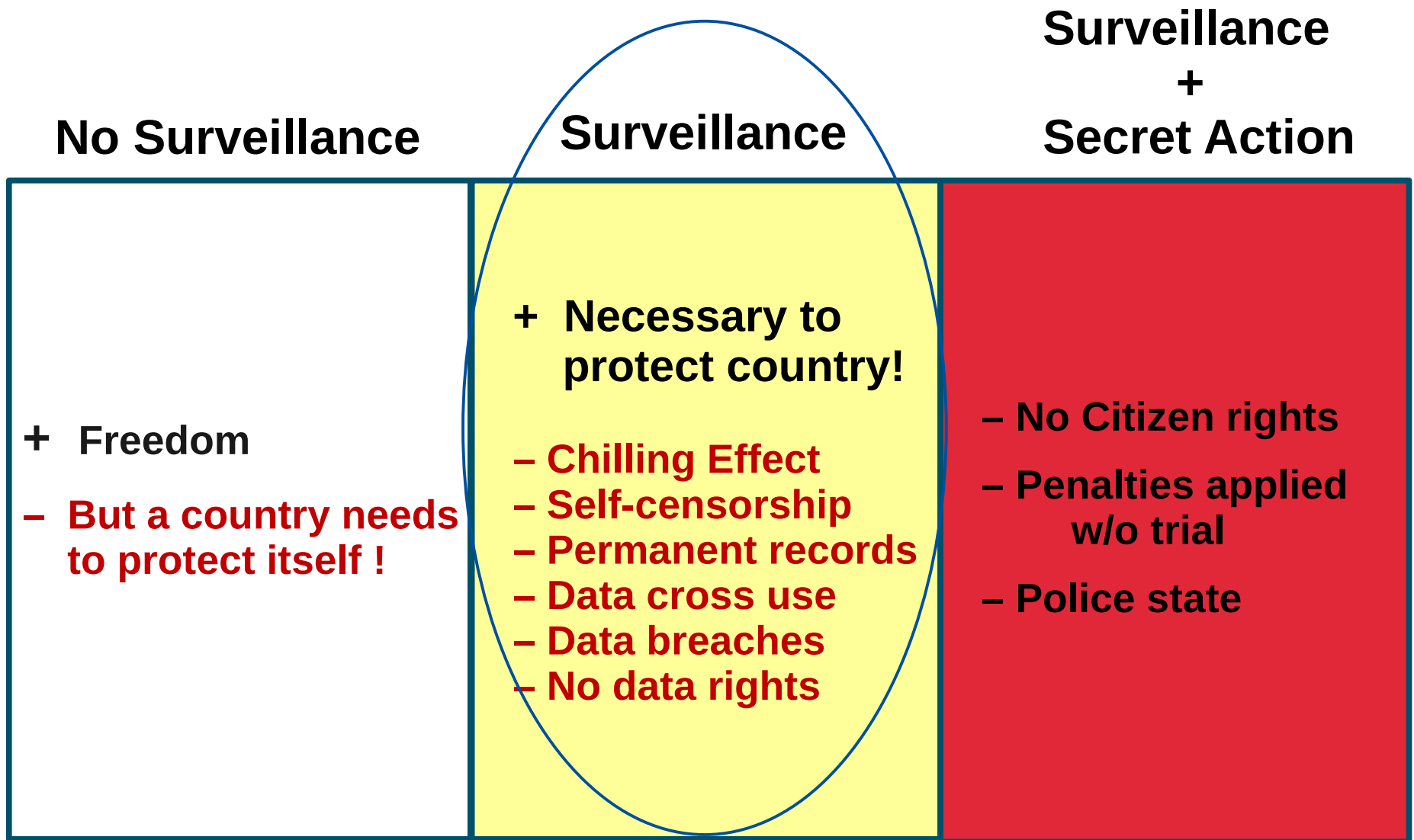
Internet tracking

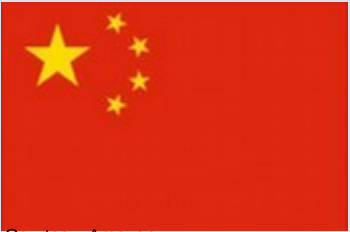


Email



# 3 States of Surveillance





Courtesy: Amazon

# China's "Social Credit"

**Purpose:** Use technology to shape behavior

**Score based on:**

- Whatever the government wants

**Consequences:**

- Jobs, loans, housing
- Travel bans
- School admissions
- Public shaming
- Fines
- Minority persecution



Courtesy: Danwei.org



hkndbnews.com

**Are we sleep-walking into a similar system ruled by corporate "little brothers"?**



Courtesy: Chinasmack.com

# Why US Gov't Secrecy ?



Courtesy: ost.edu/reticence-secrecy-virtue/

## National Security leaders believe:

- They'll get blamed if anything bad happens  
(Loss of life is quantifiable, loss of privacy is not)
- Secrecy means efficacy
- They don't get that "Trust Us" is inimical to democracy
- Congress rejected Total Information Awareness in 2003
- Thus they believe Courts, Congress, or Public would stop these programs if they knew

## How They Maintain Secrecy:

- Threat inflation
- Renaming programs
- Overlapping programs
- Misinterpreting laws
- Wordsmithing
- Misleading statements
- Lie, then quietly retract it

**"Trust Us" doesn't work!**

That's why we have Bill of Rights, distribution of powers, 3 branches of gov't, checks and balances, congressional oversight, judicial review, etc.

# The National Security State

*“No nation could preserve its freedom in the midst of continual warfare”*

– James Madison



## Panopticon

Militarization of Policing

Huge DHS

Mass Digital Surveillance

School, Public Surveillance

Surveillance Capitalism

Top Secret America

Reasons for 9/11 misrepresented

4<sup>th</sup> Amendment subverted, Security laws misinterpreted

## Continuous War Since 1991

(Assuming you consider the 1990s Iraqi embargo an act of war, as did the UN)

Afghanistan 2001 - 2022  
Mideast Armed Operations (Pakistan, Yemen, Iran, Saudi Arabia, Philippines, Iraq, Syria, others) 2001 - ?  
Iraq and Syria Armed Operations against ISIS 2014 - ?  
African Armed Operations (Liberia, Cameroon, Uganda, Sudan, Ethiopia, Djibouti, Mali, Tunisia, Kenya, Niger, Somalia, others) 2014 - ?  
Iraq War II and armed occupation 2003 – 2011  
Libya 2011, 2016  
Iraqi No-Fly Zones and Embargo enforcement 1991 – 2003

Kosovo 1999  
Haiti 1994 - 1995  
Bosnia 1992 – 1995  
Somalia 1992 - 1994, 2007 - ?  
Iraq War I (Gulf War) 1990 – 1991  
Panama 1989 - 1990

## Our Wars

**Osama Bin Laden Explains Why He Attacked US on 9/11:**

[www.libraryofsocscience.com/assets/pdf/Bin-Laden-1996-declaration-of-war-against-the-americans.pdf](http://www.libraryofsocscience.com/assets/pdf/Bin-Laden-1996-declaration-of-war-against-the-americans.pdf)





# V. Questions



# More Useful Links

- \* Privacy Definitions – Business Dictionary (BD) – [businessdictionary.com/definition/privacy.html](https://businessdictionary.com/definition/privacy.html), Wikipedia – [en.wikipedia.org/wiki/Privacy](https://en.wikipedia.org/wiki/Privacy)
- \* Psychology of Privacy – [science.jrank.org/pages/10854/Privacy-Psychological-Functions-Philosophical-Values-Privacy.html](https://science.jrank.org/pages/10854/Privacy-Psychological-Functions-Philosophical-Values-Privacy.html), opus.uni-hohenheim.de/volltexte/2017/1315/pdf/Dienlin\_2017\_The\_Psychology\_of\_Privacy.pdf
- \* Privacy is Power – [politico.eu/article/privacy-is-power-opinion-data-gdpr/](https://politico.eu/article/privacy-is-power-opinion-data-gdpr/), [teachprivacy.com/10-reasons-privacy-matters/](https://teachprivacy.com/10-reasons-privacy-matters/)
- \* Corps Appropriate Your Privacy – [zdnet.com/article/forrester-highlights-the-data-protection-guidelines-and-practices-for-54-different-countries-with/](https://zdnet.com/article/forrester-highlights-the-data-protection-guidelines-and-practices-for-54-different-countries-with/)
- \* Age of Surveillance Capitalism by Dr Zuboff – [amazon.com/Age-Surveillance-Capitalism-Future-Frontier/dp/1610395697](https://amazon.com/Age-Surveillance-Capitalism-Future-Frontier/dp/1610395697), [theguardian.com/technology/2019/jan/20/shoshana-zuboff-age-of-surveillance-capitalism-google-facebook](https://theguardian.com/technology/2019/jan/20/shoshana-zuboff-age-of-surveillance-capitalism-google-facebook)
- \* Panopticon – Panoptikon Foundation – “Three Layers of Your Digital Profile” @ [en.panoptikon.org/articles/three-layers-your-digital-profile](https://en.panoptikon.org/articles/three-layers-your-digital-profile)
- \* Top Secret America complete report - [projects.washingtonpost.com/top-secret-america/](https://projects.washingtonpost.com/top-secret-america/)
- \* New York Times complete Privacy Project - [nytimes.com/interactive/2019/opinion/internet-privacy-project.html](https://nytimes.com/interactive/2019/opinion/internet-privacy-project.html)
- \* "Collect it all" – [washingtonpost.com/world/national-security/for-nsa-chief-terrorist-threat-drives-passion-to-collect-it-all/2013/07/14/3d26ef80-ea49-11e2-a301-ea5a8116d211\\_story.html?utm\\_term=.3b20b80418da](https://washingtonpost.com/world/national-security/for-nsa-chief-terrorist-threat-drives-passion-to-collect-it-all/2013/07/14/3d26ef80-ea49-11e2-a301-ea5a8116d211_story.html?utm_term=.3b20b80418da)  
[theguardian.com/commentisfree/2013/jul/15/crux-nsa-collect-it-all](https://theguardian.com/commentisfree/2013/jul/15/crux-nsa-collect-it-all), [portside.org/2013-09-15/inside-mind-nsa-chief-general-keith-alexander](https://portside.org/2013-09-15/inside-mind-nsa-chief-general-keith-alexander), [thedailybeast.com/the-nsa-can-collect-it-all-but-what-will-it-do-with-our-data-next](https://thedailybeast.com/the-nsa-can-collect-it-all-but-what-will-it-do-with-our-data-next)
- \* Bush administration fears sleeper cells – [globalsecurity.org/military/world/para/al-qaida-sleeper-cells.htm](https://globalsecurity.org/military/world/para/al-qaida-sleeper-cells.htm), [foxnews.com/story/0,2933,57507,00.html](https://foxnews.com/story/0,2933,57507,00.html), [pbs.org/wgpb/pages/frontline/shows/sleeper/etc/synopsis.html](https://pbs.org/wgpb/pages/frontline/shows/sleeper/etc/synopsis.html), [abcnews.go.com/WNT/Investigation/story?id=566425&page=1](https://abcnews.go.com/WNT/Investigation/story?id=566425&page=1), Today - Wray warns of omnipresent terrorist threat inside US – [nypost.com/2018/09/11/wray-warns-current-terrorism-threat-in-us-is-everywhere/](https://nypost.com/2018/09/11/wray-warns-current-terrorism-threat-in-us-is-everywhere/)
- \* Other agencies get NSA data – [forbes.com/sites/jennifergranick/2013/08/14/nsa-dea-irs-lie-about-fact-that-americans-are-routinely-spied-on-by-our-government-time-for-a-special-prosecutor-2/#63444d579e8c](https://forbes.com/sites/jennifergranick/2013/08/14/nsa-dea-irs-lie-about-fact-that-americans-are-routinely-spied-on-by-our-government-time-for-a-special-prosecutor-2/#63444d579e8c), [eff.org/deeplinks/2017/01/obama-expands-surveillance-powers-his-way-out](https://eff.org/deeplinks/2017/01/obama-expands-surveillance-powers-his-way-out), [theintercept.com/2017/01/13/obama-opens-nsas-vast-trove-of-warrantless-data-to-entire-intelligence-community-just-in-time-for-trump/](https://theintercept.com/2017/01/13/obama-opens-nsas-vast-trove-of-warrantless-data-to-entire-intelligence-community-just-in-time-for-trump/)
- \* Security-industrial Complex – [aclu.org/report/combating-surveillance-industrial-complex](https://aclu.org/report/combating-surveillance-industrial-complex), [theatlantic.com/politics/archive/2013/06/the-security-industrial-complex/276906/](https://theatlantic.com/politics/archive/2013/06/the-security-industrial-complex/276906/)
- \* [Data and Goliath](https://www.dataandgoliath.com/books/data_and_goliath/) – [schneier.com/books/data\\_and\\_goliath/](https://schneier.com/books/data_and_goliath/)
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