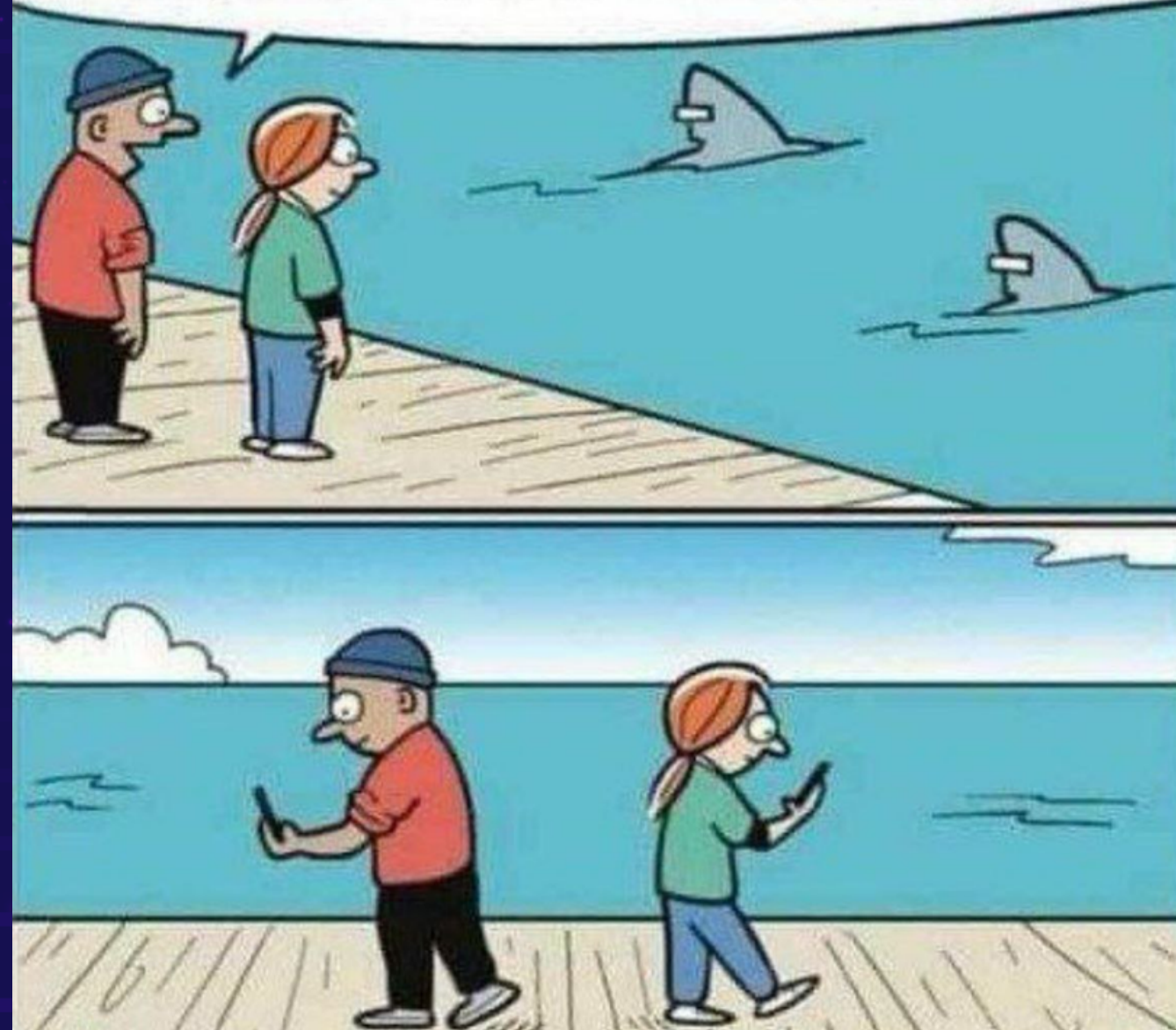# DIGITAL PRIVACY BOOTCAMP

...Because your data deserves better!

"Saying your digital privacy does not matter because you have nothing to hide is like saying your freedom of speech does not matter because you have nothing to say."

YOU WILL LEARN

- How, specifically, BigTech Monetizes and Spies on you

- The difference between "Closed Source" and "Open Source"

- Telecom Basics

- Current Realities of EMF & 5G

- Alternative Open Source Devices & Applications

- What other technologies exist that we could use for local/regional decentralized communications

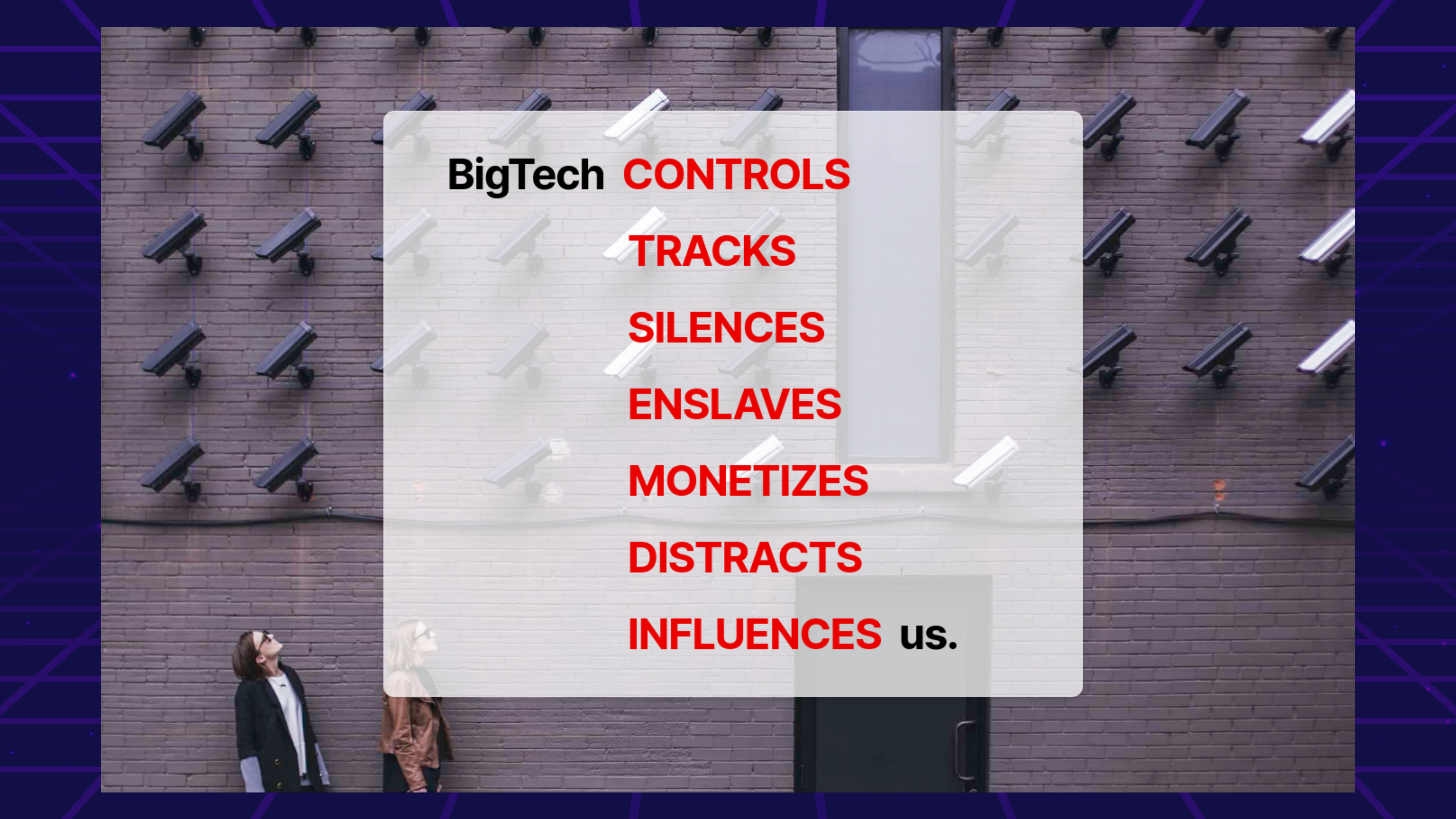- Various degrees of digital security (How secure do you **NEED** to be?)

PRESENTER

Sean Patrick Tario

- Entrepreneur, Author, Investor and Technology Trainer

- Data Center, Hosting and Cloud Services Industry Specialist

- CEO, Open Spectrum Inc. and Co-Founder of MARK37.COM

HOW BIGTECH USES YOU TO MAKE $$$$$$$$

BigTech **CONTROLS**

TRACKS

SILENCES

ENSLAVES

MONETIZES
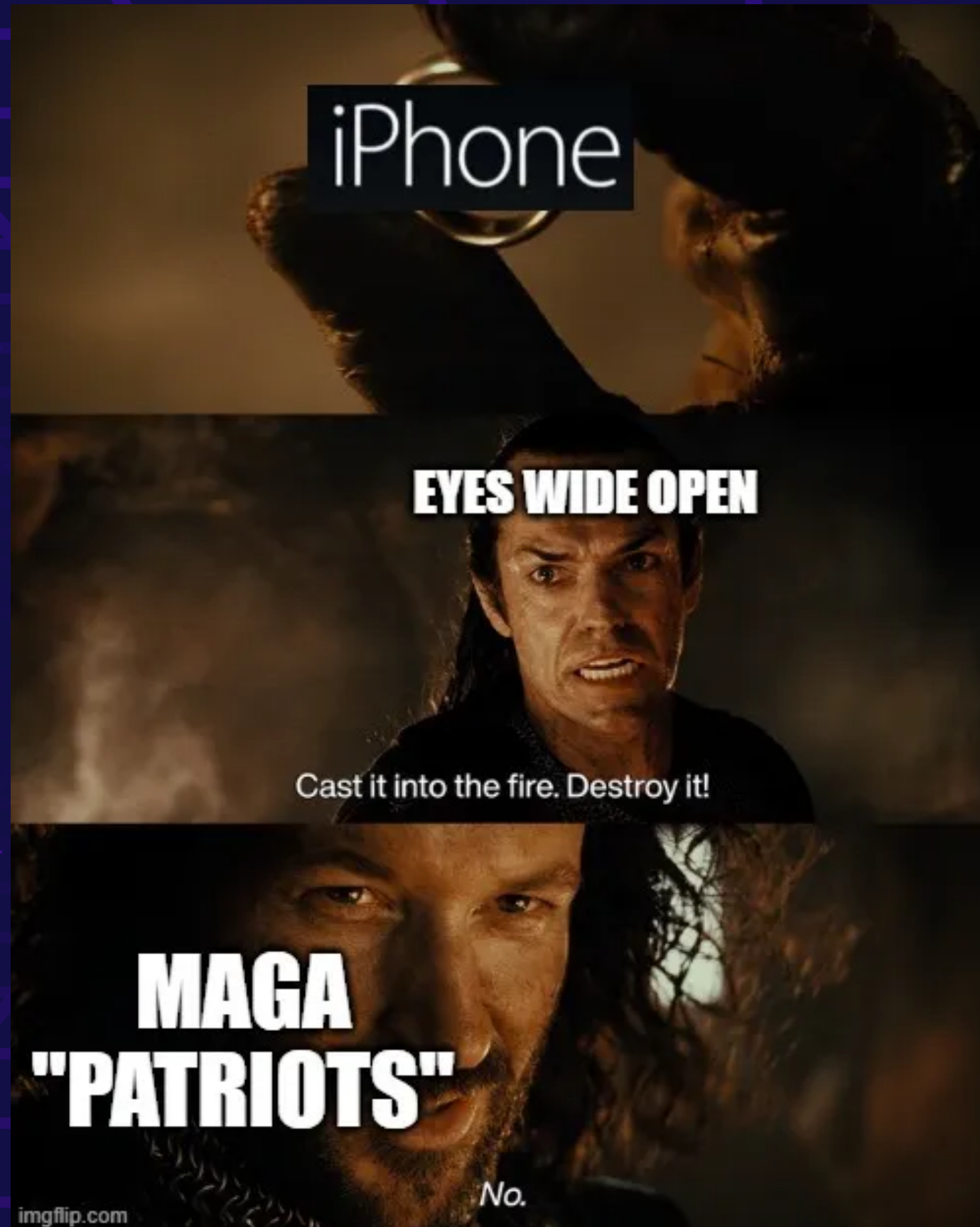
DISTRACTS

INFLUENCES us.

Free is Not Free.

The **PRODUCT** is **YOU**.

Stockholm Syndrome

A condition where hostages develop a psychological bond with their captors due to power imbalances in hostage-taking, kidnapping, and abusive relationships

Don't be like Isildur.
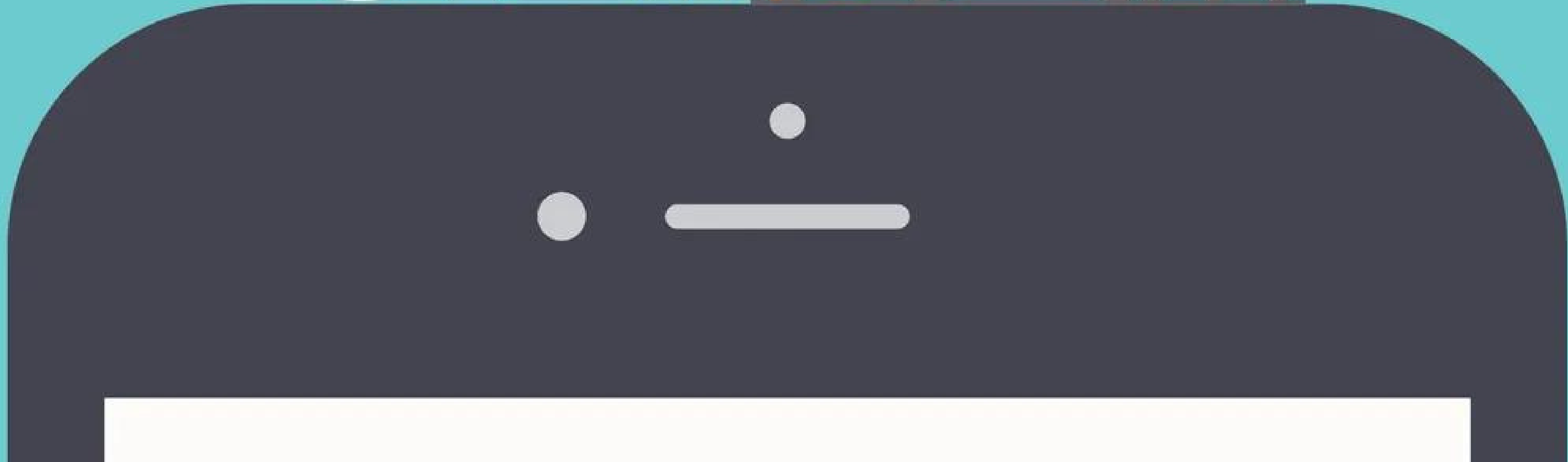LET IT GO

Don't be like Smeagol.
BREAK FREE

DATA
IS THE NEW
OIL

01010101
0101
01 101
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HOW THEY MAKE MONEY

$ from buying devices

$ from % of all sales through app stores
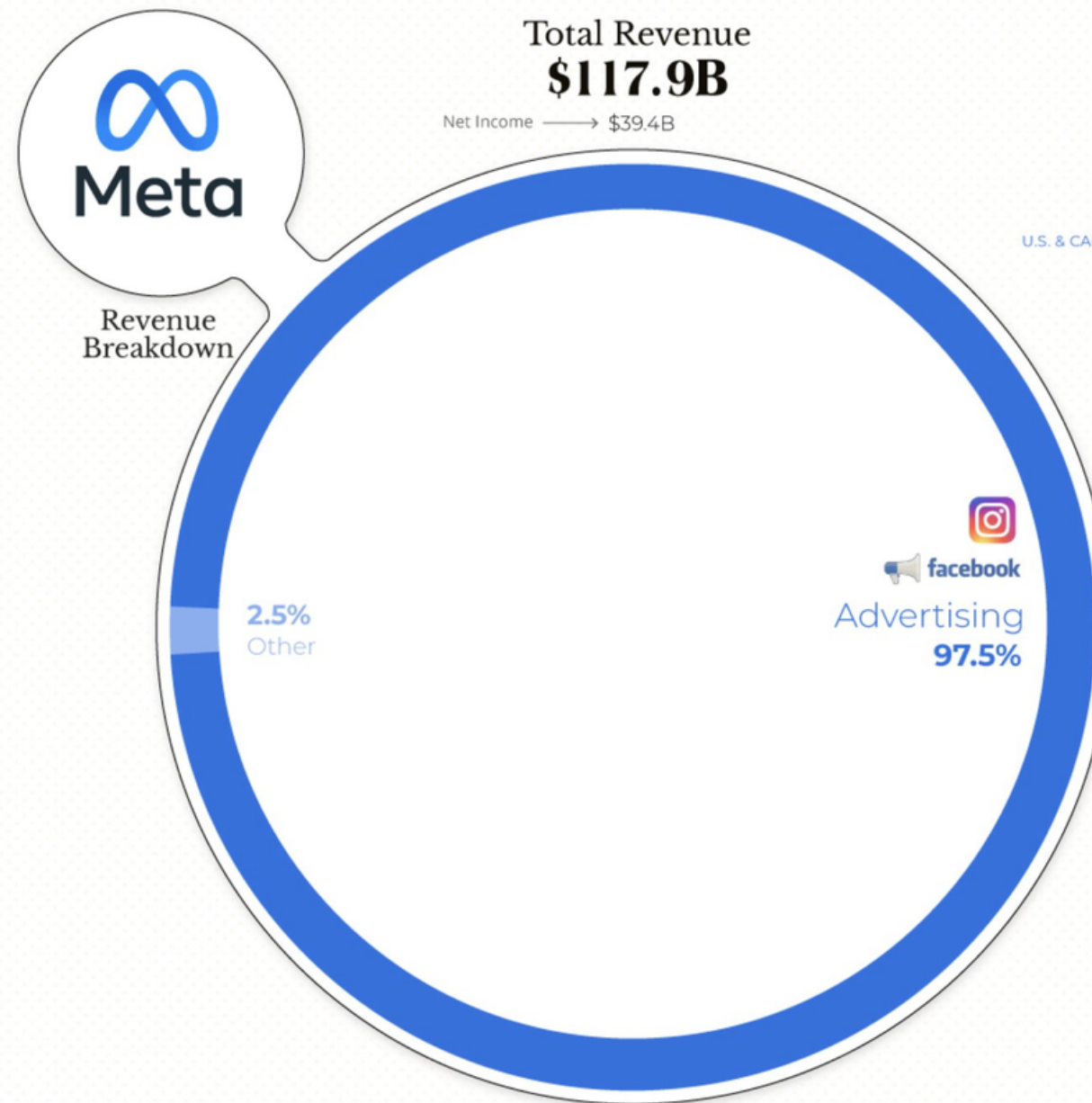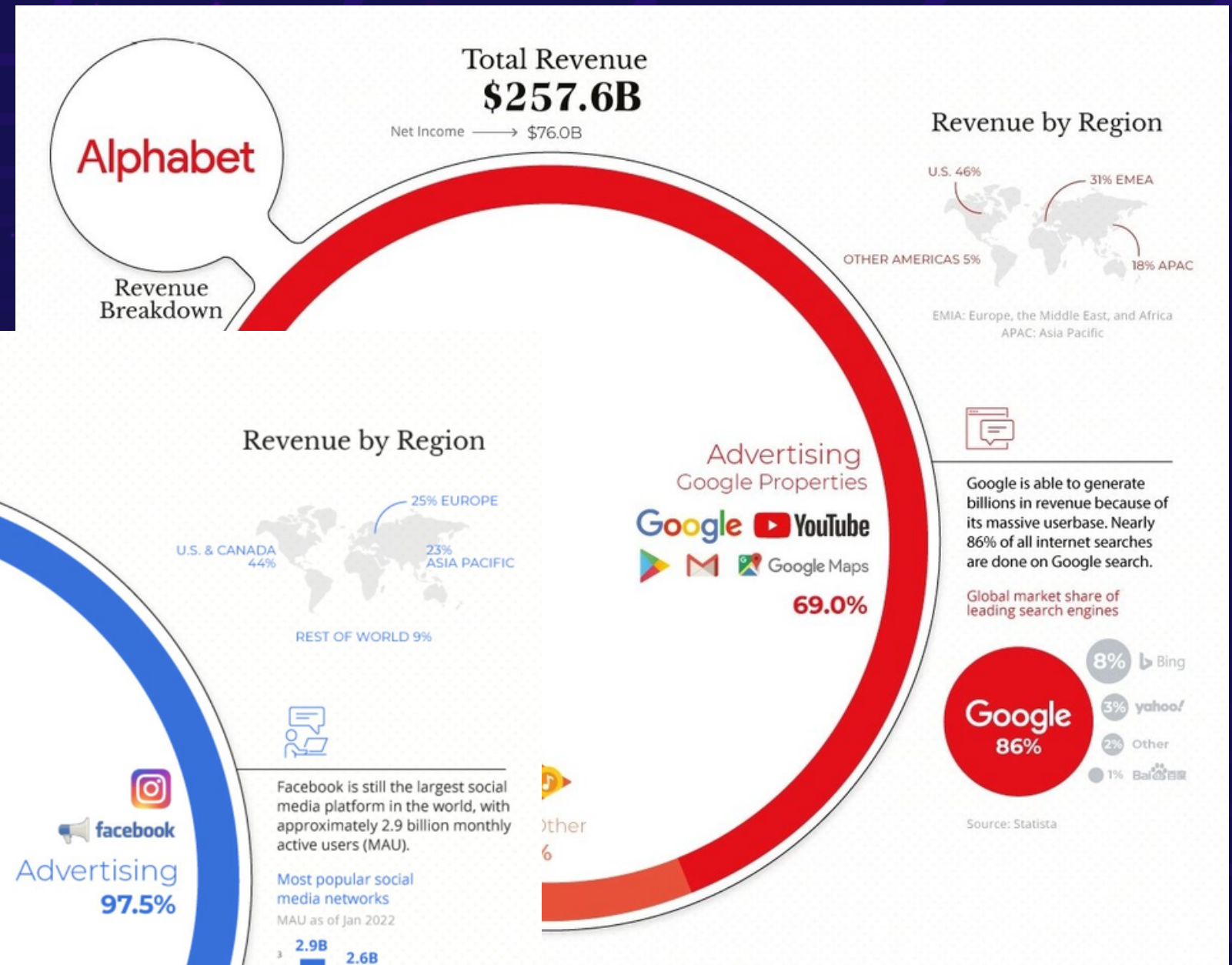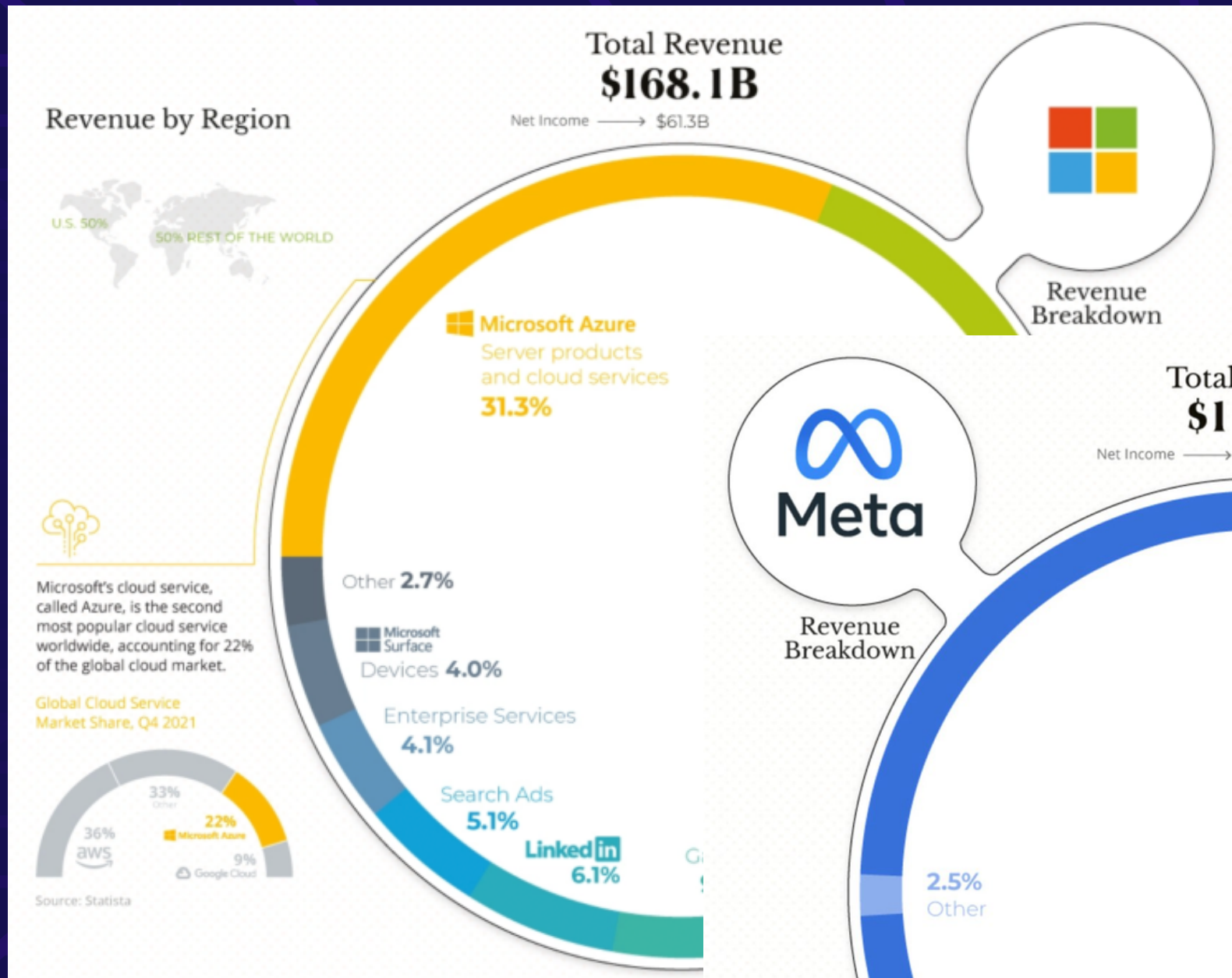
$ from cloud storage subscription

$ from advertising

$ from selling your data to the government

$ from selling your data to 3rd parties

$ from hosting your websites

$ from productivity software

BIG TECH REVENUE

Microsoft

Total Revenue
$168.1B

Net Income ⟶ $61.3B

Revenue Breakdown

Revenue by Region

U.S. 50%   50% REST OF THE WORLD

Microsoft Azure
Server products and cloud services
31.3%

Microsoft's cloud service, called Azure, is the second most popular cloud service worldwide, accounting for 22% of the global cloud market.

Global Cloud Service Market Share, Q4 2021

33% Other
36% aws
22% Microsoft Azure
9% Google Cloud

Other **2.7%**

Microsoft Surface
Devices **4.0%**

Enterprise Services **4.1%**

Search Ads **5.1%**

LinkedIn **6.1%**

Source: Statista

Meta

Total Revenue
$117.9B

Net Income ⟶ $39.4B

Revenue Breakdown

Revenue by Region

25% EUROPE
U.S. & CANADA 44%
23% ASIA PACIFIC
REST OF WORLD 9%

facebook
Advertising
97.5%

2.5% Other

Facebook is still the largest social media platform in the world, with approximately 2.9 billion monthly active users (MAU).

Most popular social media networks
MAU as of Jan 2022

2.9B   2.6B   2.0B   1.5B

Source: Statista

Meta also owns the 3rd and 4th most popular apps, WhatsApp and Instagram.

Alphabet

Total Revenue
$257.6B

Net Income ⟶ $76.0B

Revenue Breakdown

Revenue by Region

U.S. 46%   31% EMEA
OTHER AMERICAS 5%   18% APAC

EMIA: Europe, the Middle East, and Africa
APAC: Asia Pacific

Advertising
Google Properties

Google   YouTube
Google   Gmail   Google Maps
69.0%

Google is able to generate billions in revenue because of its massive userbase. Nearly 86% of all internet searches are done on Google search.

Global market share of leading search engines

Google **86%**

8% Bing
3% yahoo!
2% Other
1% Baidu

Source: Statista

BIG TECH REVENUE

Amazon

Revenue Breakdown

Total Revenue
$281B

Net Income → $11.6B

Revenue by Region

- 8% GERMANY
- U.K. 6%
- U.S. 69%
- 6% JAPAN
- REST OF THE WORLD 11%

Online Stores
Physical and digital products
amazon.com
50.4%

Amazon continues to cement its foothold in both e-commerce and cloud computing.

Third Party Seller Services
Includes commissions, shipping fees, and other services
19.2%

Other Primarily Ads
5.0%

Subscription Services
amazon Prime
6.9%

Physical Stores
6.1%

aws

Amazon Web Services
12.5%

33% Share of global cloud computing market

39% Share of U.S. e-commerce sales

Apple

Revenue Breakdown

Total Revenue
$260B

Net Income → $55.2B

Revenue by Region

- 23% EUROPE
- AMERICAS 45%
- 8% JAPAN
- 17% CHINA
- REST OF ASIA PACIFIC 7%

iPhone
54.7%

Services
Services include Digital Content and Services, AppleCare, Apple Pay, licensing and other services.

 Pay · MUSIC · TV
17.8%

iPhone is still the king, making up over half of Apple's total revenue

iPhone revenue as a % of total revenue

61% Q1 2020

80%
60%
40%
20%

'07 '08 '09 '10 '11 '12 '13 '14 '15 '16 '17 '18 '19

AirPods have been a big hit for Apple. The distinctive wireless headphones generated billions in revenue in 2019. (Estimates range from $6 to $12 billion.)

Other Products
9.4%

iPad
8.2%

Mac
9.9%

BIG TECH REVENUE

These 5 companies combined:

- Make over $1 Trillion annually
- Spend over $15M annually lobbying congress
- 80+% of employees voted Democrat
- Employees donated over $15M in 2020 election to Democrat party (does not include PAC donations which historically has exceeded this amount)
- Spend nearly $1B globally w/ institutions and causes that advocate for globalization, centralization, censorship and limited personal sovereignty
- Both openly and secretly ("national security reasons") share information w/ the US Government and various other Governments around the world

THE DATA
BIG TECH COMPANIES
HAVE ON YOU

THE TYPES OF DATA MAJOR TECH COMPANIES ADMIT TO COLLECTING IN THEIR PRIVACY POLICIES

	Google	Facebook	Apple	Twitter	Amazon	Microsoft
Name	✓	✓	✓	✗	✓	✓
Gender	✓	✓	✗	✗	✗	✓
Birthday	✓	✓	✗	✗	✗	✓
Phone Number	✓	✓	✓	✓	✓	✓
Email Address	✓	✓	✓	✓	✓	✓

	Google	Facebook	Apple	Twitter	Amazon	Microsoft
Location	G	f	🍎	Only your time zone	a	⊞
Relationship Status	✕	f	✕	✕	✕	✕
Work	G+	f	✕	✕	✕	✕
Income Level	✕	f	✕	✕	✕	✕
Education	G+	f	✕	✕	✕	✕
Race/Ethnicity	"	f	✕	✕	✕	✕
Religious Views		f	✕	✕	✕	✕
Physical Address		f	🍎	✕	✕	⊞
Facial Recognition Data	✕	f	✕	✕	✕	⊞

"We don't show you personalized ads based on sensitive categories, such as race, religion, sexual orientation, or health."

Data Type	Google	Facebook	Apple	Twitter	Amazon	Microsoft
Political Views	✗	✓	✗	✗	✗	✗
Credit Cards	✗	✓ (If you've made purchases on Facebook)	✓	✓	✓	✓
Government IDs (Such as Social Security and Driver's License Numbers)	✗	✗	✓ (Only the IP address used to open the Apple ID account)	✗	✓	✗
IP Addresses	✓	✓	✓	✓	✓	✓
Your Emails	✓	✓ (Including followers, following, friend requests, pending friend requests, removed friends, friends, the friends labeled as family members, and groups)		✗	✗	✓
Your Contacts	✓	✓	✗	✓ (After you've given Twitter permission)		✓
Your Phone Calls	✗		✓ (Only the meta data on when the phone calls were made)			✓
Your Chat Conversations/ Messages	✗	✓	✓ (Only the meta data on when the text messages (in iMessage) were made)	✓	✓	✓
Calendar Events	✓	✓ (Including both what you've joined AND what you've been invited to)		✗	✗	✓

Category	Google	Facebook	Apple	Twitter	Amazon	Microsoft / Bing
Search History	G	Facebook	✗	✗	amazon	Bing
Videos Watched	YouTube	✗		Including live broadcasts — Twitter	amazon (video)	Microsoft
Websites Visited	G	✗	✗	✗	amazon	Bing
Browser Information	Chrome	Facebook	✗	✗	amazon	Microsoft
Video Uploads	YouTube	Facebook	✗	✗	amazon (Including a personal photograph in your profile)	Microsoft
Photo Uploads	G	Facebook (Including photo metadata)		Twitter	amazon	Microsoft
Status Updates/Posts	G+	Facebook	✗	Twitter	amazon (Including discussion boards, community features, and reviews)	✗
Likes	✗	Facebook	✗	Twitter		Bing
Your Documents	Google Drive	✗	Only Apple device purchases and maintenance	✗		Microsoft (Including documents you store in the cloud)
Your Purchase...					amazon	

Data Type	Google	Facebook	Apple	Twitter	Amazon	Microsoft
Your Purchase History	✕	✕	Apple	✕	Amazon	Microsoft
Your Games	✕	✕ *Only meta information on gaming sessions with Game Center*	Game Center	✕	✕	Microsoft
Your Books	✕	✕	iBooks	✕	✕	Microsoft
Your Music	✕	✕ *Including iTunes downloads as well as iTunes Match uploads and downloads*	iTunes	✕	✕	Microsoft
Your Fitness/Heath Data	✕	✕	✕	✕	*HealthVault data such as heart rate and daily steps taken*	Microsoft Health
Ads You Click	Google Ads	Facebook	✕	✕	Amazon	Bing
What you've hidden from newsfeed	✕	Facebook	✕	✕	✕	✕
The Devices You Use	Android	Facebook	Apple *Only Apple device purchases and maintenance*	Twitter	Amazon	Microsoft
Information About the Things Near Your Device (WiFi, Bluetooth, Etc.)	Android	✕	✕	✕	✕	Microsoft
Voice Data						

Data Type	Google	Facebook	Apple	Twitter	Amazon	Microsoft
Your Fitness/Heath Data	✕	✕	✕	✕		HealthVault data such as heart rate and daily steps taken
Ads You Click	Google	Facebook	✕	✕	amazon	Bing
What you've hidden from newsfeed	✕	Facebook	✕	✕	✕	✕
The Devices You Use	Android	Facebook	Apple	Twitter	amazon	Microsoft
Information About the Things Near Your Device (WiFi, Bluetooth, Etc.)	Android	✕		✕	✕	Microsoft
Voice Data	✕	✕	✕	✕	Alexa	Cortana
Gaming Interactive Data	✕	✕	✕	✕	✕	Xbox

Only Apple device purchases and maintenance

Includes skeletal tracking data and buttons pressed while using Xbox Live

SECURITY BARON

"My son asked me why I speak so softly when I am in the house. I told him I was afraid the NSA was listening. My son laughed, I laughed... Alexa laughed."

HOW THEY CONTROL YOU

It's all about accessing and owning YOUR DATA:
- Your preferences + opinions
- What you search for
- Who you interact with
- Where you go
- Where you shop and what you buy
- Pictures and videos you take
- Content in emails, text messages and phone calls

HOW THEY CONTROL YOU

It's all about MIND CONTROL:
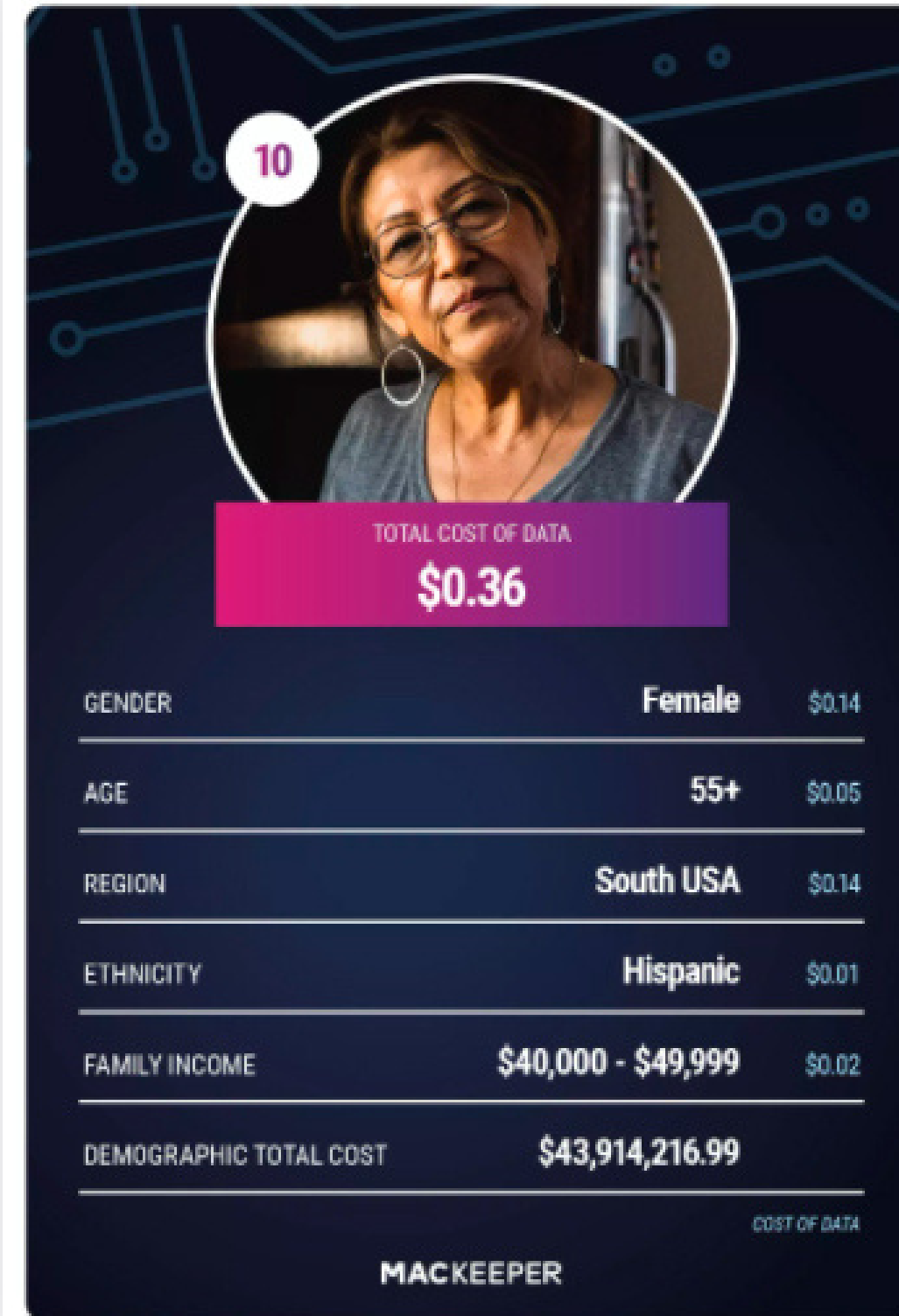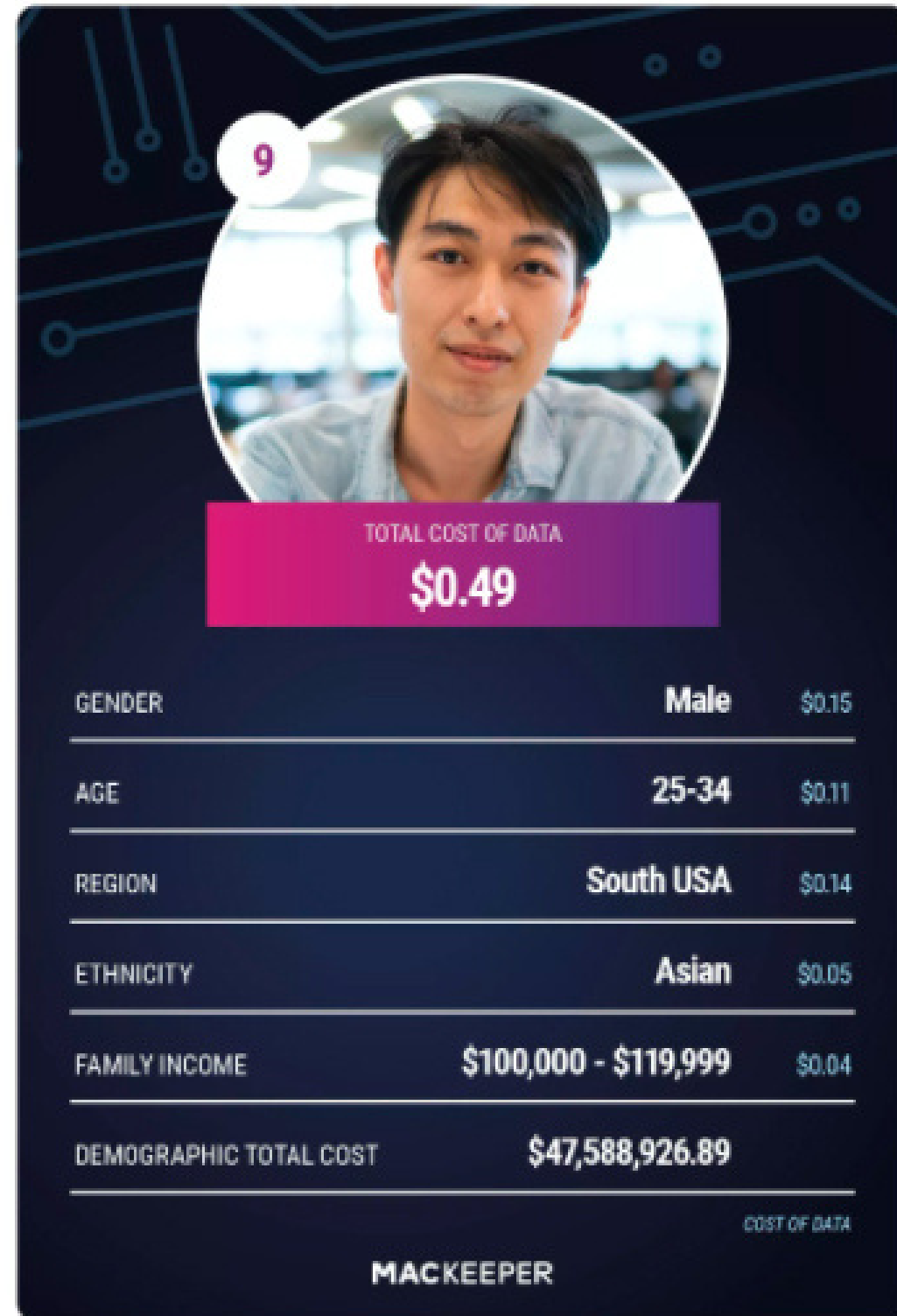- What information you see when you search

Sergey Brin and Lawrence Page in their 1998 paper,
"The Anatomy of a Large-Scale Hypertextual Web Search Engine,"
"… [W]e expect that advertising funded search engines will be inherently biased towards the advertisers and away from the needs of consumers."

- Recommendations that keep you addicted
- Flicker Fusion
- Chromebooks / Google in the Classroom
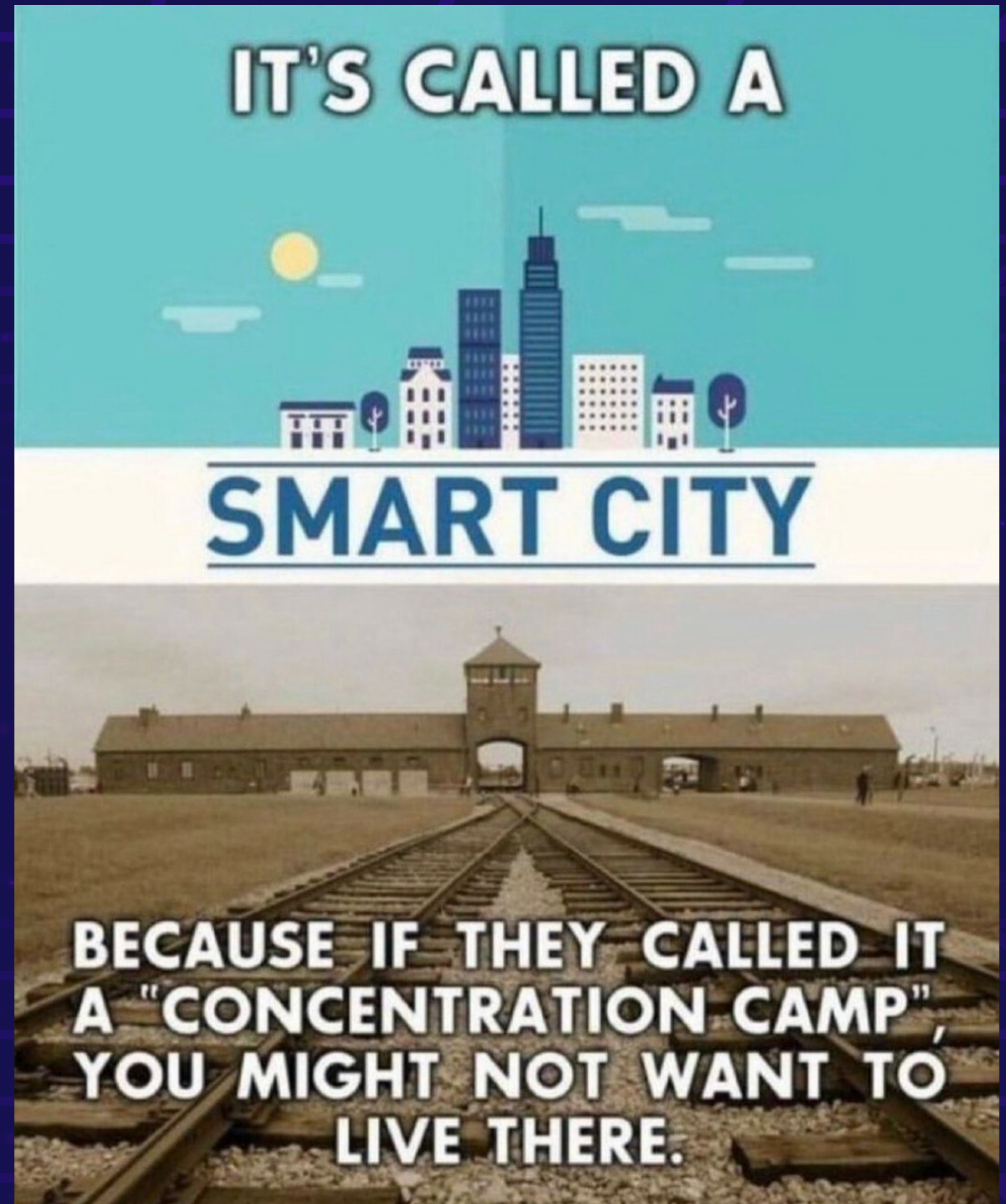
WHAT IS YOUR DATA WORTH?

Ethnicity	Cost for Data *Per Person*	Percentage of Population	Total Demographic Cost
White	$0.19	35.56%	$21,845,128.59
Black	$0.57	6.40%	$11,942,003.63
Hispanic	$0.01	8.09%	$345,523.24
Asian	$0.05	1.11%	$188,886.04
Native American	$0.09	0.68%	$202.860.90
Middle Eastern	$0.62		
Mixed	$0.03		
Other	$0.07		

Annual Family Income	Cost for Data *Per Person*	Percentage of Population	Total Demographic Cost
Less than $10,000	$0.10	3.15%	$1,081,093.97
$10,000 - $19,999	$0.03	6.10%	$590,998.04
$20,000 - $29,999	$0.04	4.51%	$634,723.43
$30,000 - $39,999	$0.07	4.12%	$936,440.55
$40,000 - $49,999	$0.02	4.94%	$399,923.48
$50,000 - $59,999	$0.03	6.69%	$578,150.25
$60,000 - $69,999	$0.05	3.68%	$563,451.52
		2.81%	$420,140.78
		3.15%	$532,964.16
		2.71%	$362,328.50
		1.84%	$2,014,766.03
		2.23%	$1,592,509.68

Age	Cost for Data *Per Person*	Percentage of Population	Total Demographic Cost
18-24	$0.36	11.92%	$14,253,466.27
25-34	$0.11	21.80%	$7,791,894.90
35-44	$0.12	20.30%	$8,368,383.54
45-54	$0.27	13.76%	$12,346,312.34
55+	$0.05	32.22%	$5,272,710.83

"SMART" CITY = SURVEILLANCE CITY

IT'S CALLED A

SMART CITY

BECAUSE IF THEY CALLED IT A "CONCENTRATION CAMP", YOU MIGHT NOT WANT TO LIVE THERE.

CLOSED SOURCE

OPEN SOURCE

```python
22
23        :param locations: A list of dotted path locations where the module ma
24        :type locations: list[str]
25
26        :param module_name: The name of the module to find.
27        :type module_name: str
28
29        """
30        for dotted_path in locations:
31            path = dotted_path.replace(".", os.sep)
32            packages = find_packages(path)
33
34            for package in packages:
35                _dotted_path = "%s.%s" % (package, module_name)
36                try:
37                    import_module(_dotted_path)
38                except Exception:  # pragma: no cover
39                    # This IS tested in unit tests but for some reason does
40                    if submodule_exists(_dotted_path, module_name):
41                        raise
42
43
44    def find_packages(path):
45        """Get a list of Python packages on the given path.
46
47        :param path: The path to which packages are located.
48        :type path: str
49
50        :rtype: list[str]
51        :returns: A list of dotted paths for packages found at the top level
52
53        """
54        a = list()
55        for d in os.listdir(path):
56            _path = os.path.join(path, d)
57            if not os.path.isdir(_path):
```

OPEN SOURCE STRENGTHS

- **Software Freedom**
  - Open source software provides free alternatives to paid software, which benefits computer users and prevents commercial-only software models from dominating the market
- **Collaborate**
  - Open source software fosters collaboration among software engineers worldwide, who can modify the source code and contribute to the development and enhancement of projects through new features, bug fixes, documentation, and more
- **Community Control**
  - Open source software provides improved long-term support and availability as access to the code base is transferred to the community, reducing reliance on a single entity and ensuring continuity of support.

OPEN SOURCE STRENGTHS

- **Strengthen**
  - Open source projects benefit from improved robustness and security as a result of community support through scaled testing, bug reporting, and user feedback, leading to enhanced validation processes.
- **Empower**
  - The open source mindset relies on knowledge sharing and the freedom to exchange information and expertise among developers, which is fundamental to producing high-quality software and driving the continuation of such projects.
- **Community Support**
  - Open source has become a powerful support system that fosters a community of engineers from around the world, encouraging them to achieve anything with technology.
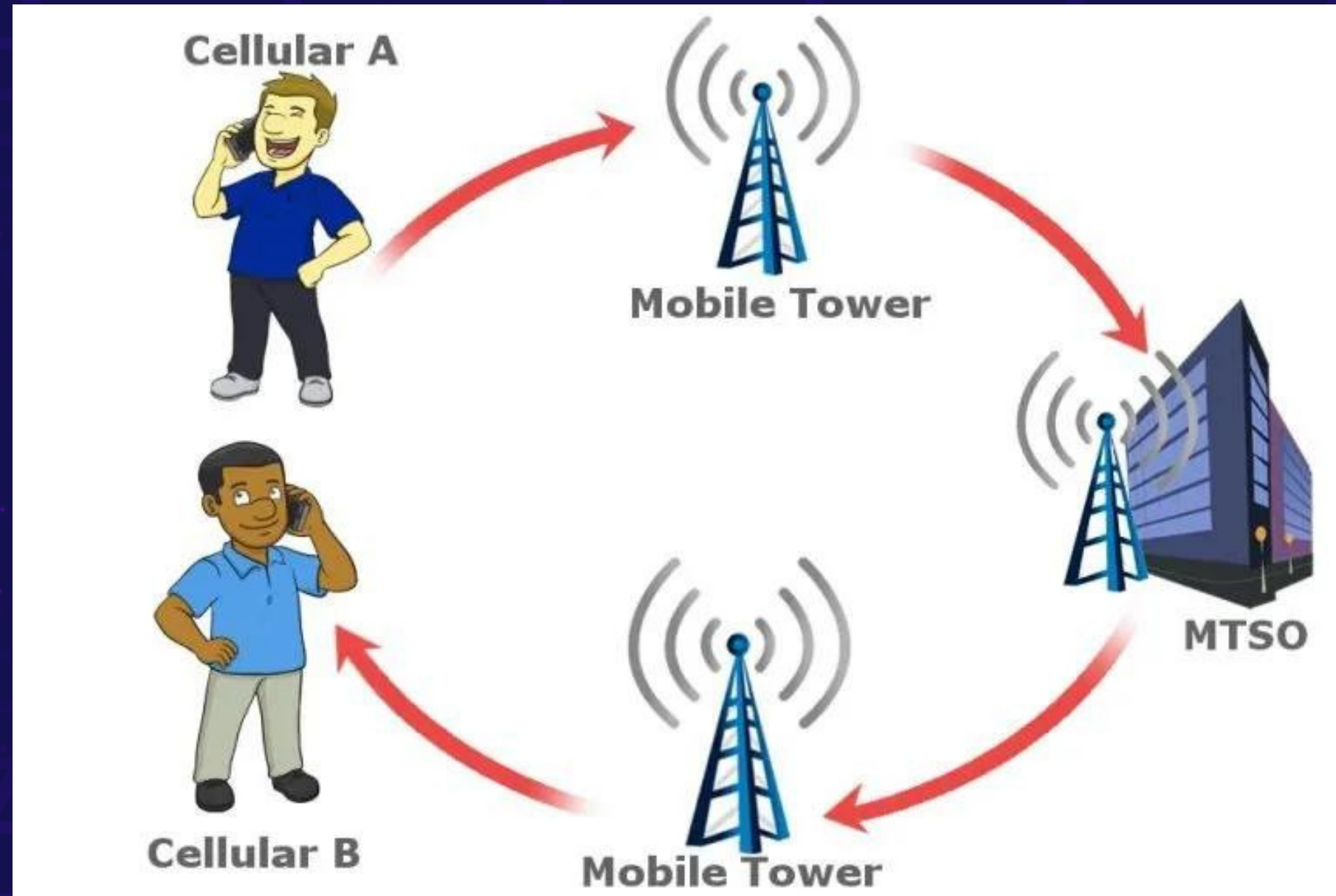
Centralization
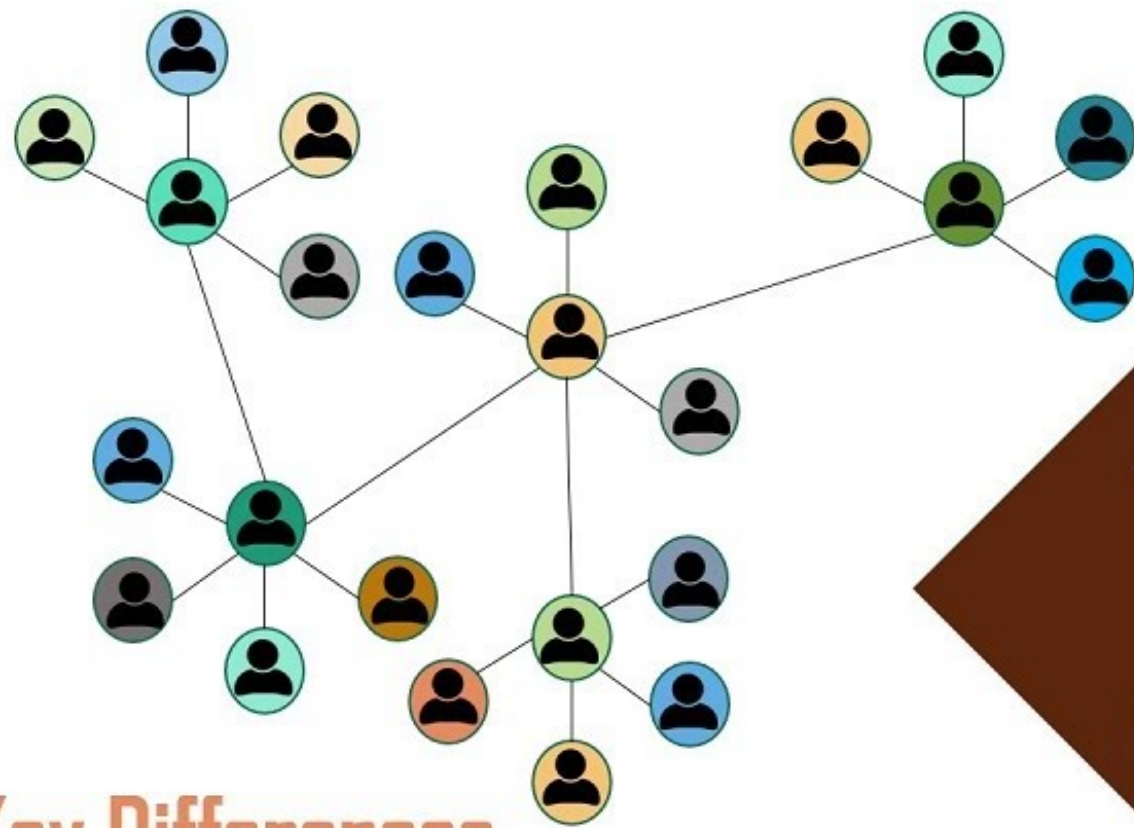
Decentralization

Key Differences

HOW TELECOM WORKS

HOW TELECOM WORKS
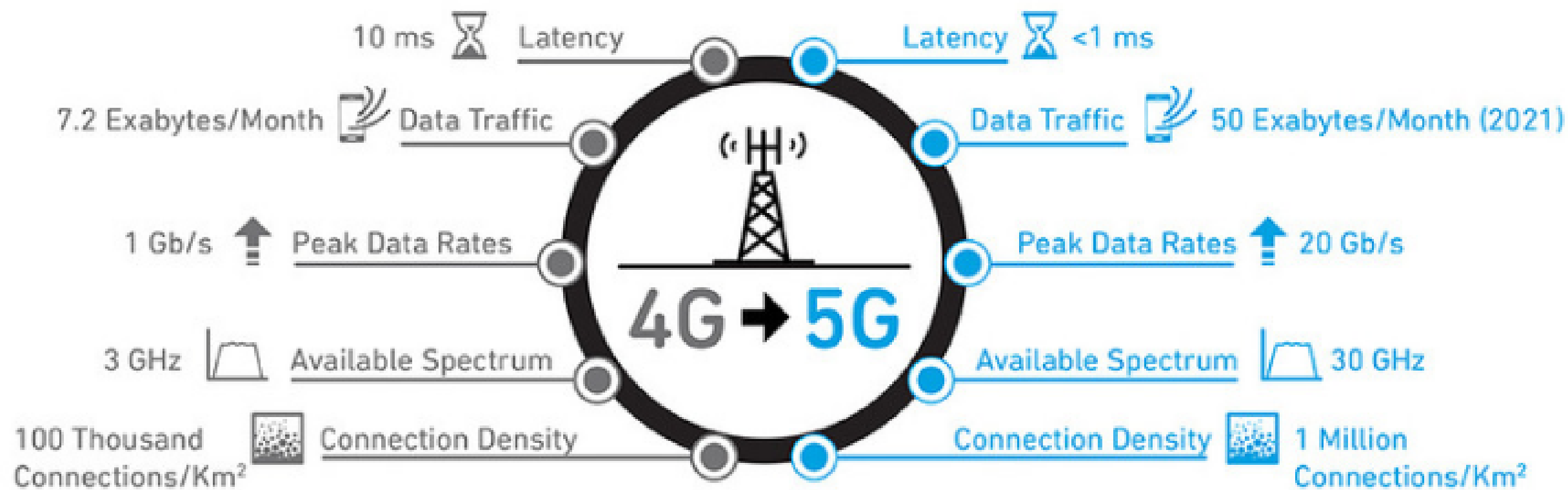
AT&T   T-Mobile   Verizon

Cricket   -   TracFone   -   PureTalk

US Cellular   -   Patriot Mobile

nano sim card   →   nano to micro   →   micro sim card

EMF & 5G

Comparing 4G and 5G

	4G	5G
Latency	10 ms	<1 ms
Data Traffic	7.2 Exabytes/Month	50 Exabytes/Month (2021)
Peak Data Rates	1 Gb/s	20 Gb/s
Available Spectrum	3 GHz	30 GHz
Connection Density	100 Thousand Connections/Km²	1 Million Connections/Km²
Channel bandwidth	20MHz 200kHz (for Cat-NB1 IoT)	100MHz below 6GHz 400MHz above 6GHz
Frequency band	600MHz to 5.925 GHz	600MHz–mmWave (for example, 28GHz, 39GHz, and onward to 80 GHz
Uplink waveform	Single-carrier frequency division multiple access (SC-FDMA)	Option for cyclic prefix orthogonal frequency-division multiplexing (CP-OFDM)
User Equipment (UE) transmitted power	+23 decibel-milliwatts (dBm) except 2.5GHz time- division duplexing (TDD) Band 41 where +26dBm, HPUE is allowed IoT has a lower power-class option at +20dBm	+26dBm for less than 6GHz 5G bands at and above 2.5GHz

RADITION IS KILLING & DISRUPTING

The biggest insurance companies in the world know it. The Securities and Exchange Commission knows it. And the telecoms know it.

5G is a "High Impact Liability" Risk

In its 2019 *New Emerging Risks SONAR Report*, **Swiss Re**, one of the world's largest insurance companies, classified 5G as a "*High Impact Liability*" **risk**. The report stated, "*Existing concerns regarding potential negative health effects from electromagnetic fields (EMF) are only likely to increase. An uptick in liability claims could be a potential long-term consequence.*"
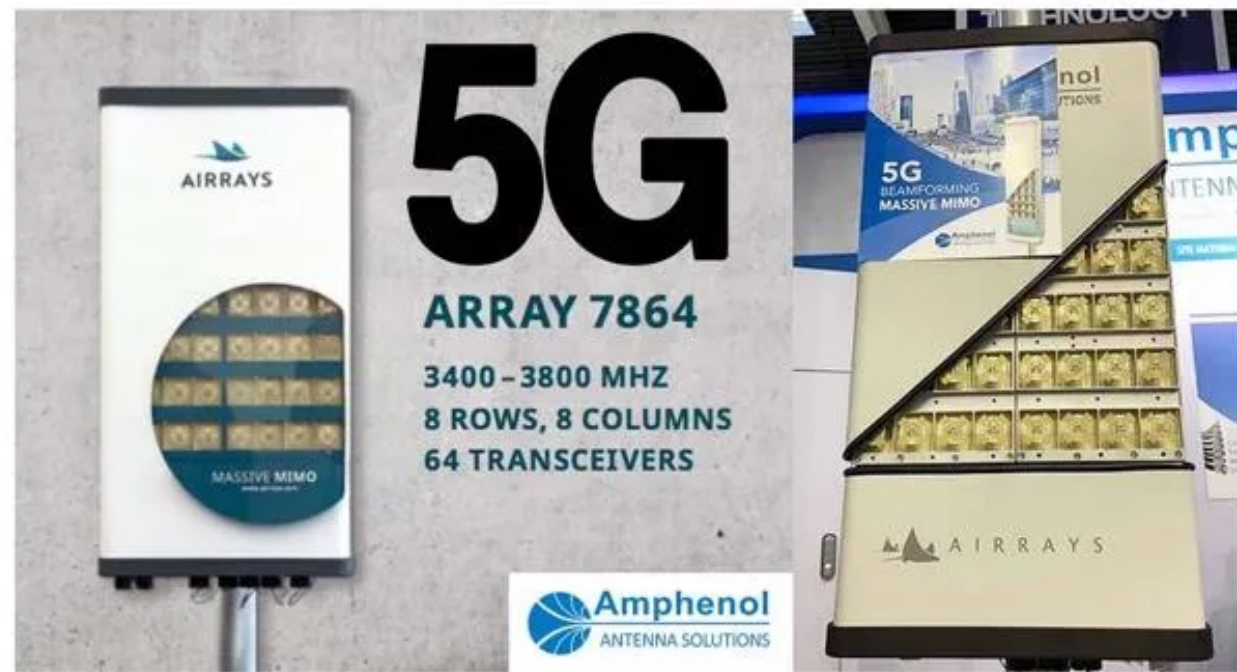
In its business insurance policies, **Lloyds of London** says it will not cover "*claims arising out of, resulting from or contributed to by electromagnetic fields, electromagnetic radiation, electromagnetism, radio waves or noise.*" In other words, wireless radiation from wireless antennas including 5G small cells, is not covered by their policies.
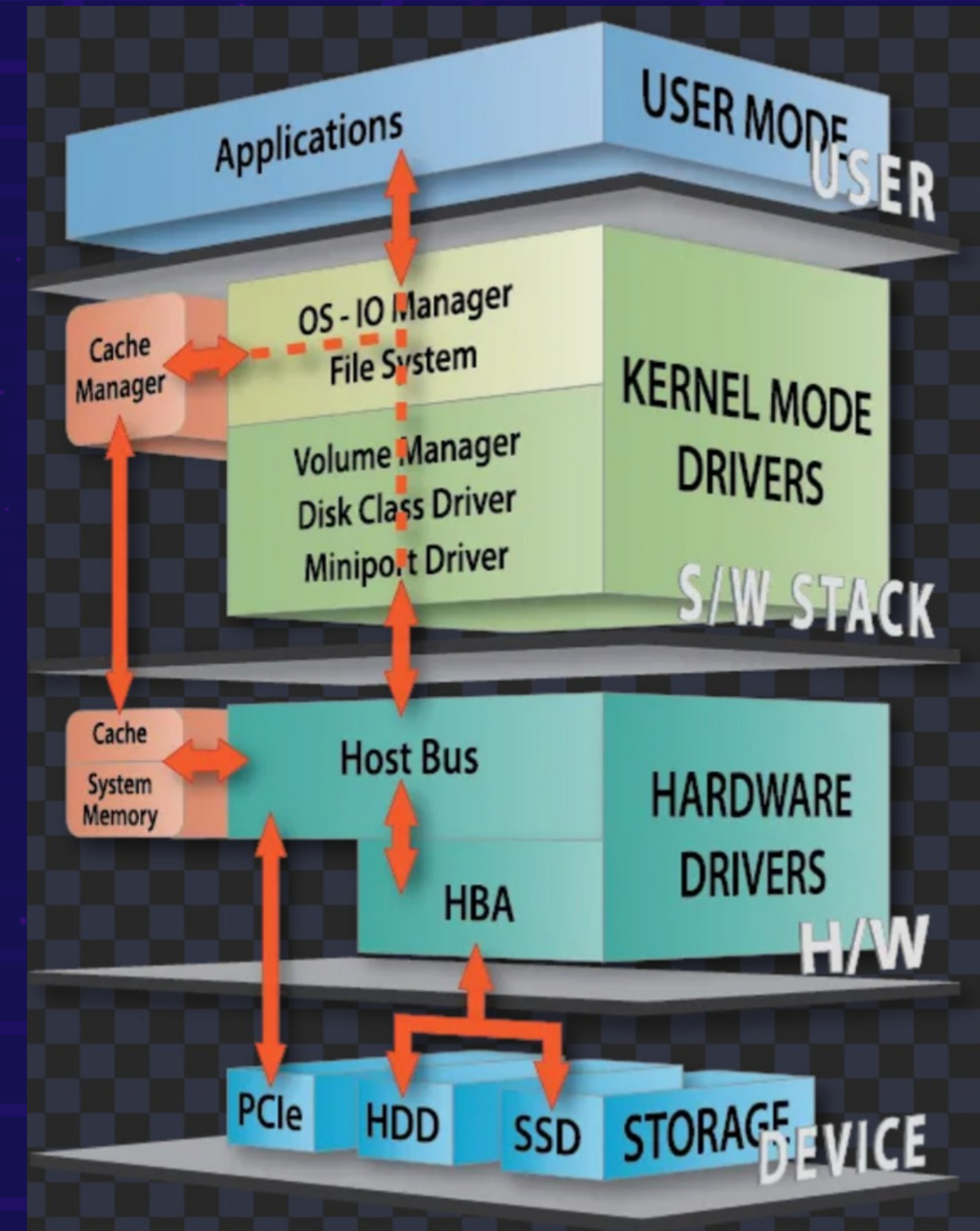
EMF & 5G

BURNABY, BC - HUAWEI 5G MIMO   SEATLE, WA - ERICSSON 5G MIMO

AIRRAYS

MASSIVE MIMO

5G

ARRAY 7864

3400 – 3800 MHZ
8 ROWS, 8 COLUMNS
64 TRANSCEIVERS

5G
BEAMFORMING
MASSIVE MIMO

AIRRAYS

Amphenol
ANTENNA SOLUTIONS
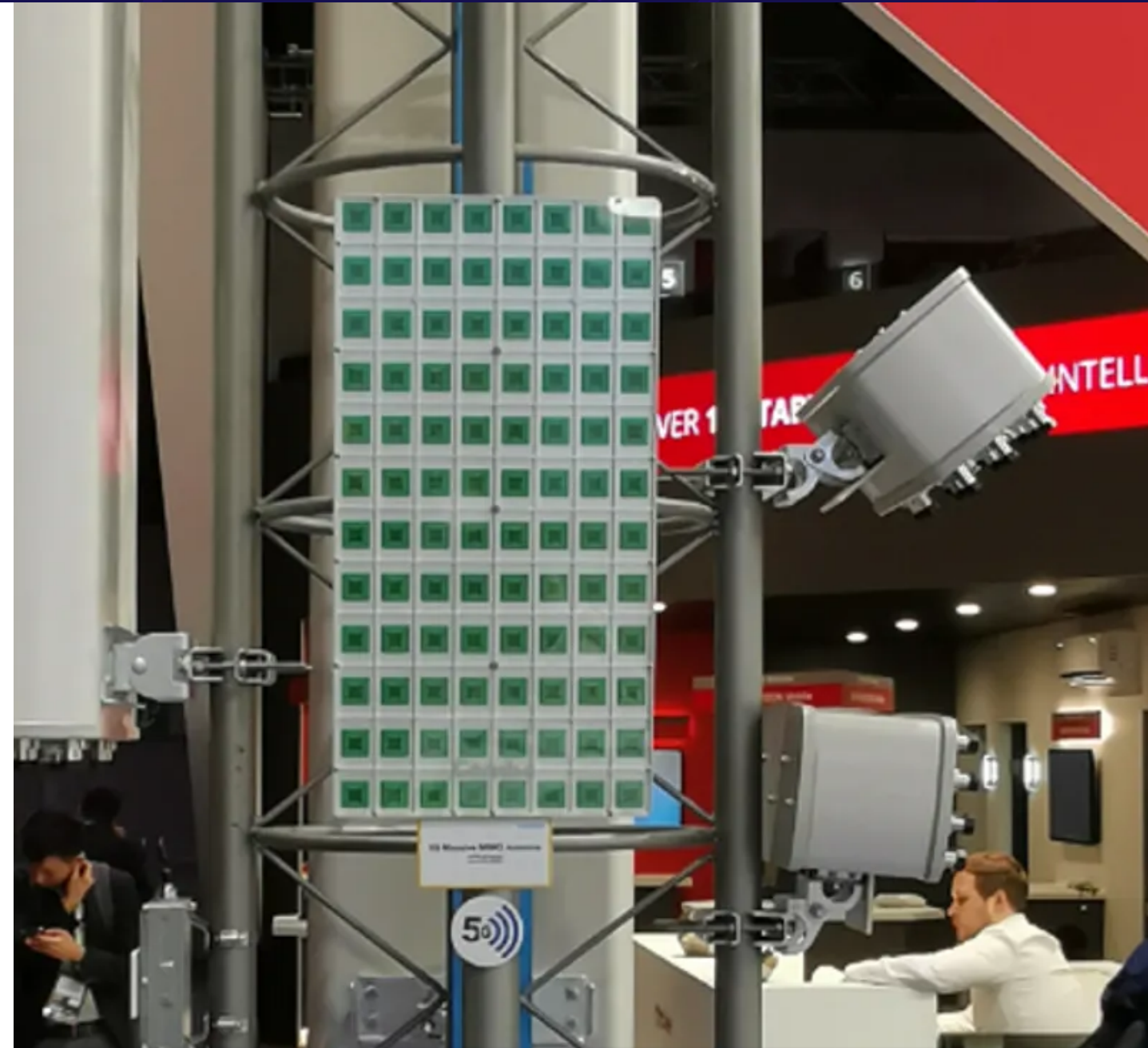
WHAT IS AN OPERATING SYSTEM?

SOME GOOD NEWS...

PEOPLE ARE WAKING UP

OCTOBER 12, 2023
Surveilling Kids at School Is a $3.1 Billion Industry — And It's Making Kids 'Anxious' and 'Scared'

NOVEMBER 09, 2023
Study Links Cellphone Use to Lower Sperm Count, but Authors Downplay Findings

OCTOBER 24, 2023
'Ban the Scan': 32 Groups Ask New York City to Ban Facial Recognition Technology

SEPTEMBER 28, 2023
CHD Asks to Intervene in Verizon Lawsuit Against New Jersey County That Denied Telecom Giant's Permits for 5G Towers

AUGUST 23, 2023
Arizona Activists Take on AT&T Over Plans to Site Cell Tower Near Rare Desert Waterway and Ancestral Hopi Settlements

AUGUST 23, 2023
'Megalomaniac Ambition for Total Control': Governments Eye New Gates–Funded Biometric Digital ID System
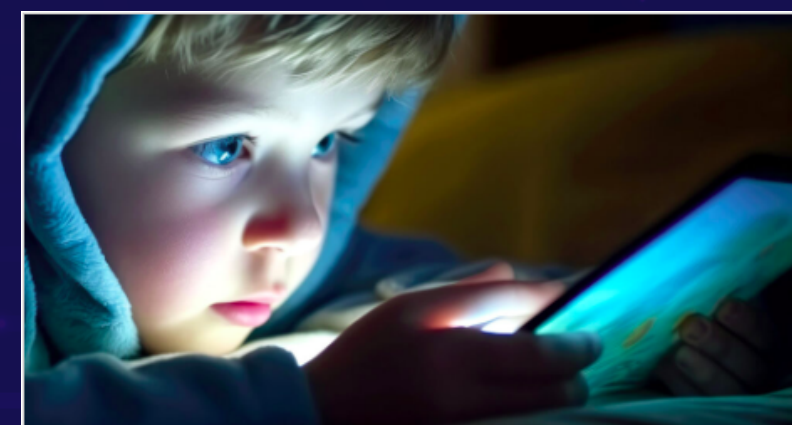
SEPTEMBER 14, 2023
Big Tech's 'Sinister Agenda' Behind Getting Kids Hooked on Technology
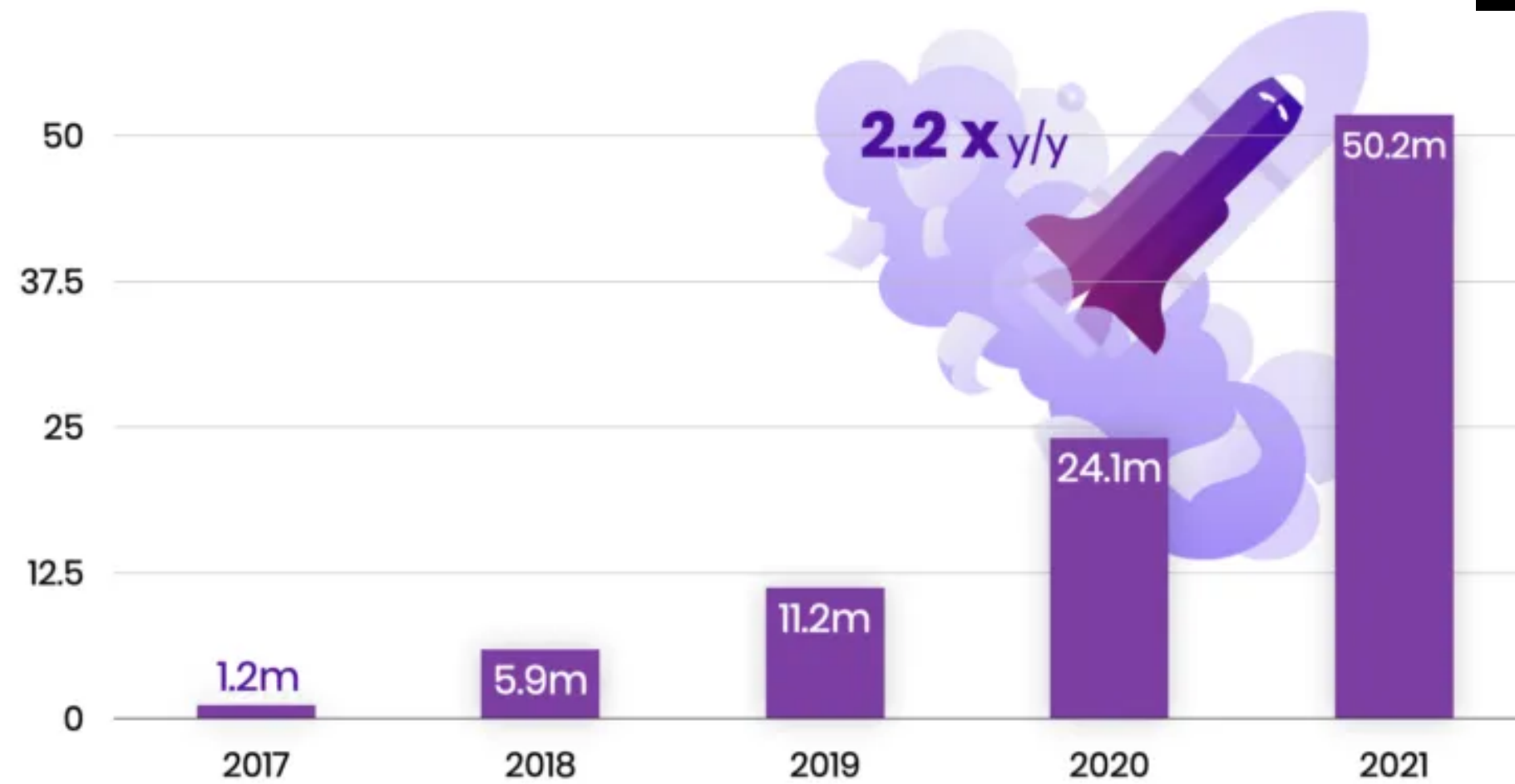

AUGUST 30, 2023
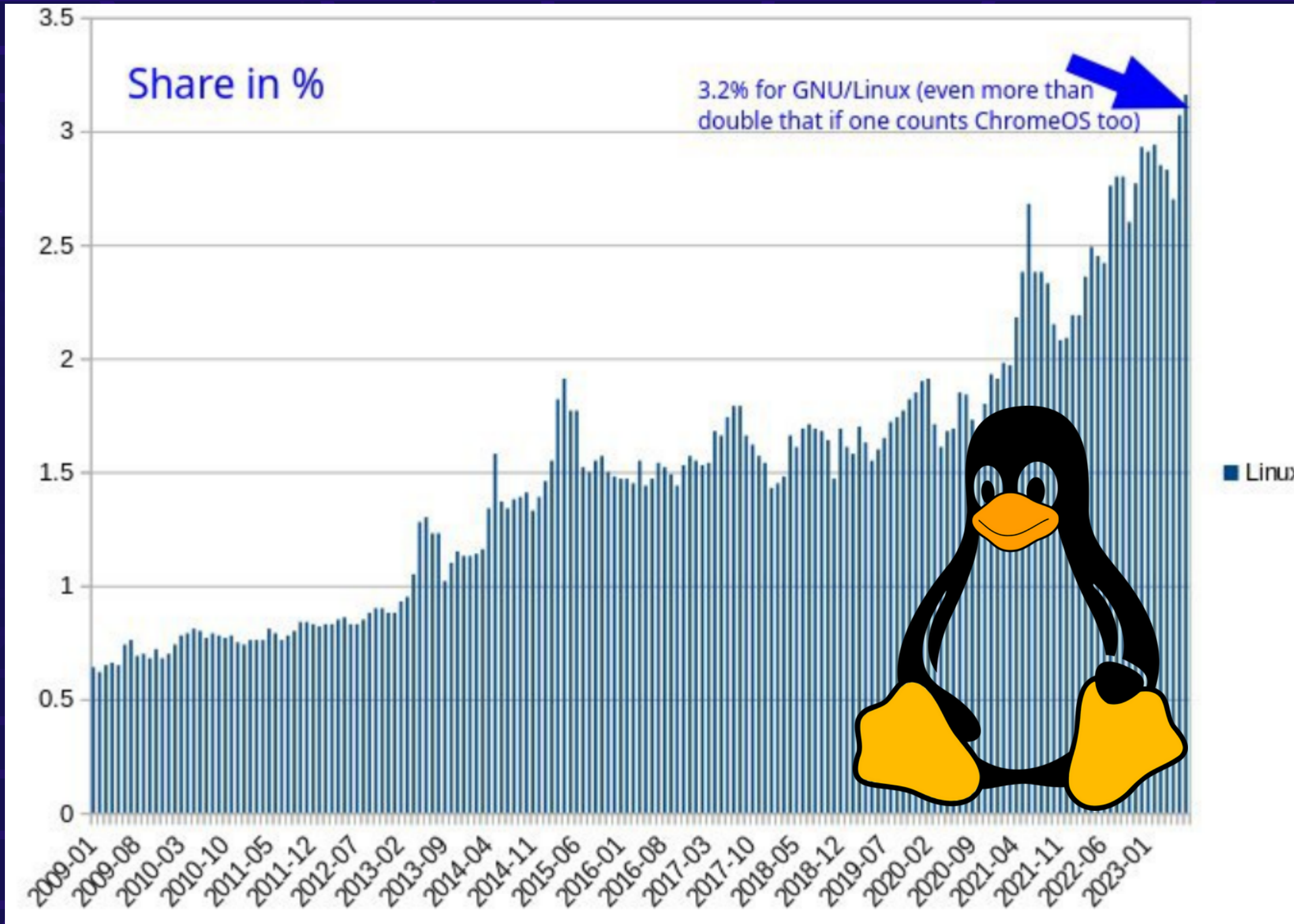Screen Time for Babies: Unsafe at Any Dose?

PRIVACY IS WINNING

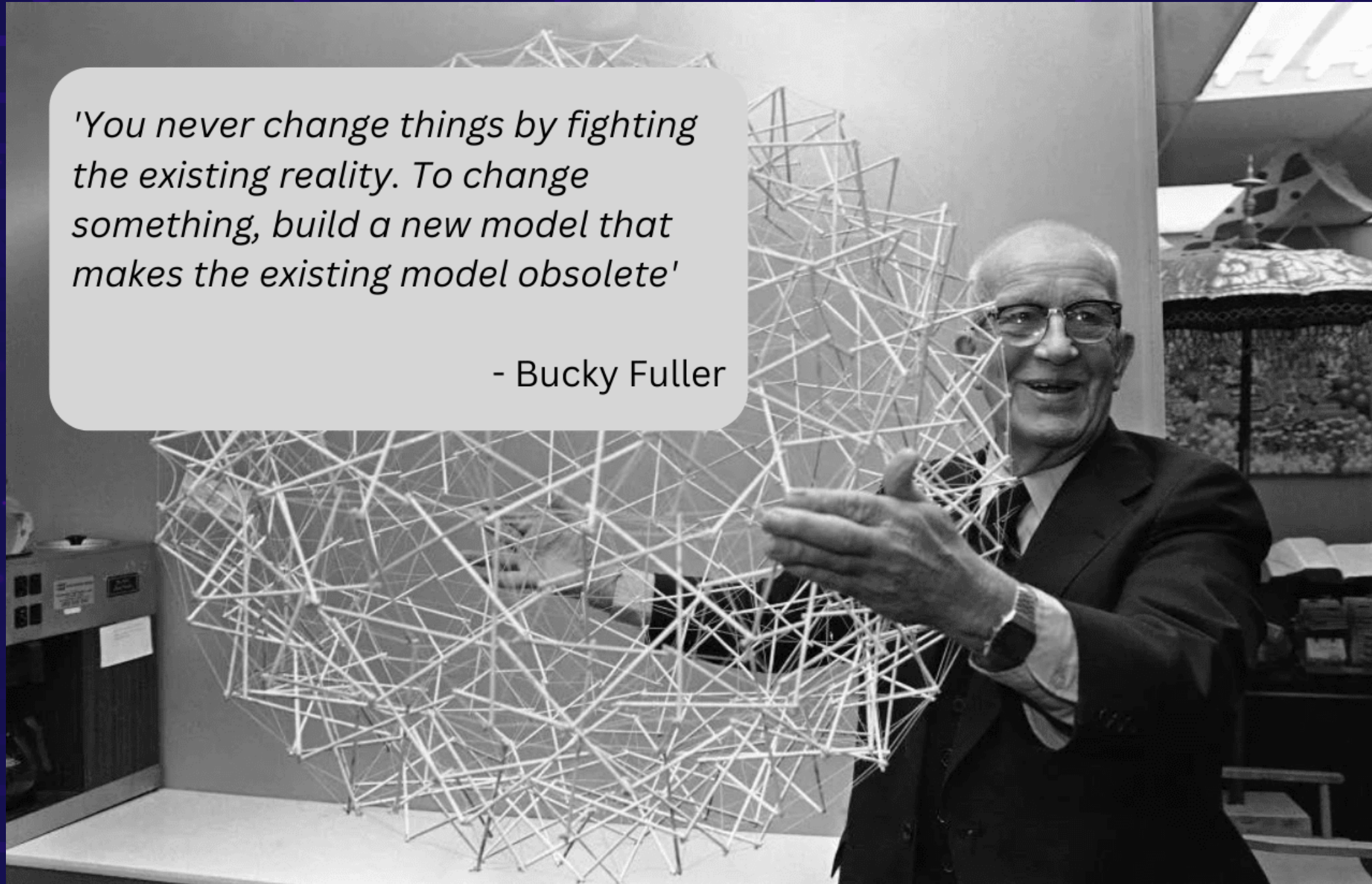Brave monthly active users

Five Years of User Growth

2.2 x y/y

Year	Users
2017	1.2m
2018	5.9m
2019	11.2m
2020	24.1m
2021	50.2m

'You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete'
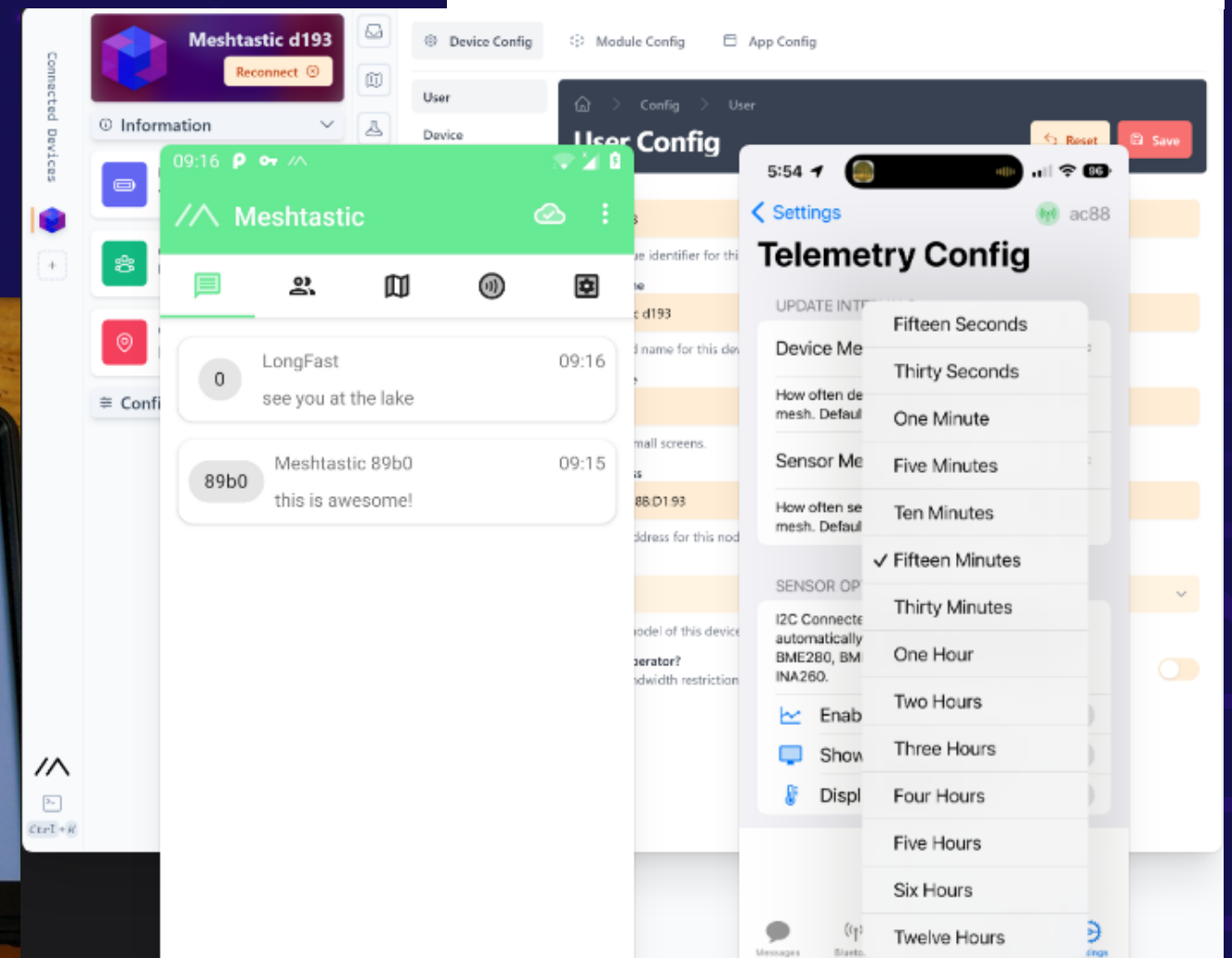
- Bucky Fuller

ALT COMMS

LILYGO / RNode with Meshtastic 2.0:

- 2-5 mile range
- Can relay messages
- Unlimited range with enough nodes
- Purchase or Assemble
- FOSS works great with GrapheneOS
- @ $75 per node

RESOURCES

MARK37.COM

- Ghost Phones & Laptops
- De-Google your Phone & DeApple/Windows your Computer
- Faraday Bags
- Phone and Laptop Setup & Migration Support

truthinlove.substack.com

- "Your Guide to #BoycottBigTech: Alternatives & Resources"
- "3 Steps to Digital Freedom"

ForceFieldIT.com

- Personal & Family - Digital protection and coaching for you, your home and your family
- Business Transformation - Migrate your business off the various BigTech devices, platforms, software and services while regaining ownership and protection of your data and core digital assets.

RESOURCES

Intelondemand.substack.com

- Comprehensive intelligence reports on the forces shaping an alternative economy; technology, media, politics and beyond.

Jeff.pro/MARK37

- Smart Approachable Articles & Insights on Current Tech Topics
- Online Linux Training

Contact us w/ any questions/comments

- SUPPORT@MARK37.COM
- Livechat via MARK37.COM from 9am - 5pm
- https://t.me/MARK37chat
-