

The background of the slide is white and filled with a pattern of small black dots. These dots are arranged in a grid-like fashion, but they are more densely packed on the right side of the slide and become sparser towards the left. A single red dot is located in the middle-right area of the slide, slightly above the horizontal center. On the left side, there is a solid black rectangular box. A thin red vertical line is positioned on the right edge of this black box, separating it from the dotted background.

# Modern Cryptographic Dissidence

Jason Truppi - @NotTruppi

“

The right to be let alone is indeed the beginning of all freedom.

”

- Supreme Court Justice William O. Douglas, 1952

A large, stylized, light gray opening quotation mark.

Without strong encryption, you will be spied on systematically by lots of people.

A large, stylized, light gray closing quotation mark.

-Whitfield Diffie, 2017

A large, stylized, light gray opening quotation mark.

...on balance, the advantages of more widespread use of cryptography outweigh the disadvantages.

A large, stylized, light gray closing quotation mark.

-National Research Council  
Study of US Crypto Policy, 1996

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...domestic intelligence activities [that] threaten to undermine our democratic society and fundamentally alter its nature.

A large, stylized, light gray closing quotation mark.

-Senate Church Committee, 1976

A large, stylized, light gray opening quotation mark.

I would rather be exposed to the inconveniences attending too much liberty than those attending too small a degree of it.

A large, stylized, light gray closing quotation mark.

-Thomas Jefferson, 1791

A large, stylized, light gray opening quotation mark.

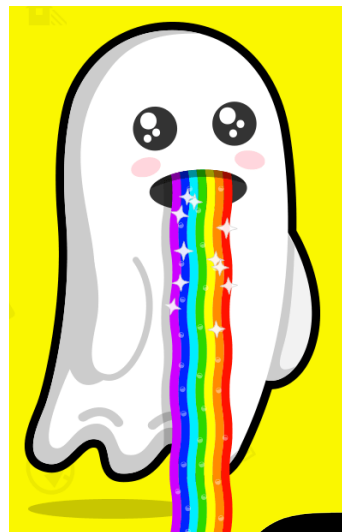
The looming spectre of the widespread use of robust, virtually unbreakable encryption is one of the most difficult problems confronting law enforcement as the next century approaches.

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-Louis J. Freeh, Director FBI, 1997

# How Did We Get Here?

- Crypto Wars v1
- DoD's Category XIII Munitions List
- Clipper Chip
- Netscape US-edition
- Wassenaar Arrangement
- Executive Order 13026
- Crypto reform of 2010
- App-revolution
- Going Dark
- Crypto Wars v2





## Netscape Download Page

- [Netscape Communicator 4.04 for Windows 3.x](#)
- [Netscape Communicator 4.5 for Windows 95/98](#)
- [Netscape 4.08 for Windows 3.1x](#)
- [Netscape 4.08 for Windows 95/98 \(128-bit encryption\)](#)

Extra Downloads: • [Netscape Smart Update for Windows 95/98](#)



### Netscape Smart Update for Windows 95/98

**Minimum Requirements:** Windows 95/98

**Download Size:** 97KB

To start download, [click here](#).



### Netscape Navigator 4.08 Stand-alone Browser for Windows 3.1

(with 128-bit data encryption)

**Minimum Requirements:** 486 or better processor, Windows 3.1, 3.11, 8MB Ram (16MB Recommended)

**Download Size:** 9MB

To start download, [click here](#).



### Netscape Communicator Navigator 4.08 Complete for Windows 3.1

**Minimum Requirements:** 486 or better processor, Windows 3.1, 3.11, 8MB Ram (16MB Recommended)

**Download Size:** 15MB

To start download, [click here](#).



### Netscape Communicator 4.04 Standard Edition for Windows 3.1

**Minimum Requirements:** 486 or better processor, Windows 3.1, 3.11, 8MB Ram (16MB Recommended)

**Download Size:** 17.4MB

To start download, [click here](#).

**NOTE:** After downloading the file, double click on it. You will be asked which directory you would like the files extracted to. (the default is c:\download) After the files are extracted, open File Manager and go to the directory where the files are. Double click on Setup.exe and the program will begin installing. This download version replaces a previous version that caused errors and unusual behavior while extracting the files.



### Netscape Communicator 4.5 Standard Edition for Windows 95/98

• Customized for Cintek Clients •

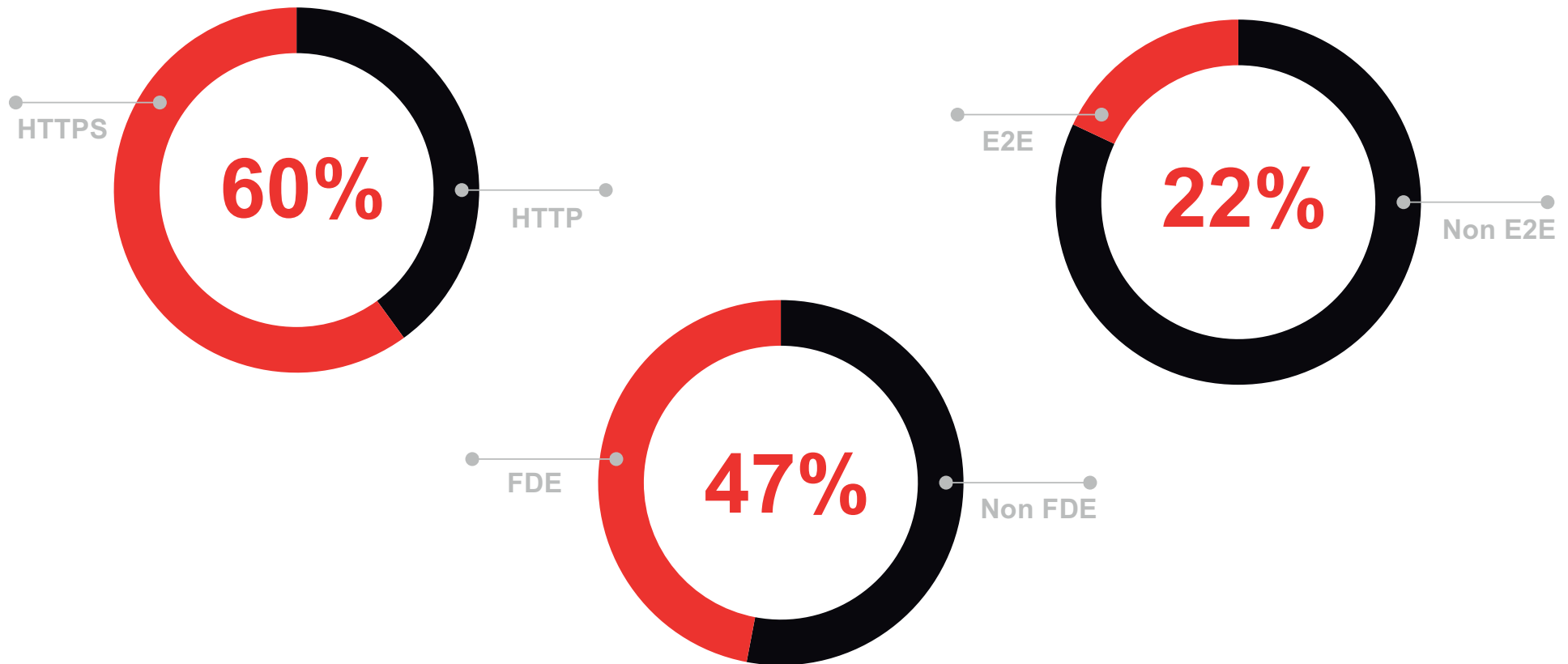
**Minimum Requirements:** 486 or better processor, Windows 95, 98, 8MB Ram (16MB Recommended)

**Download Size:** 15.1MB

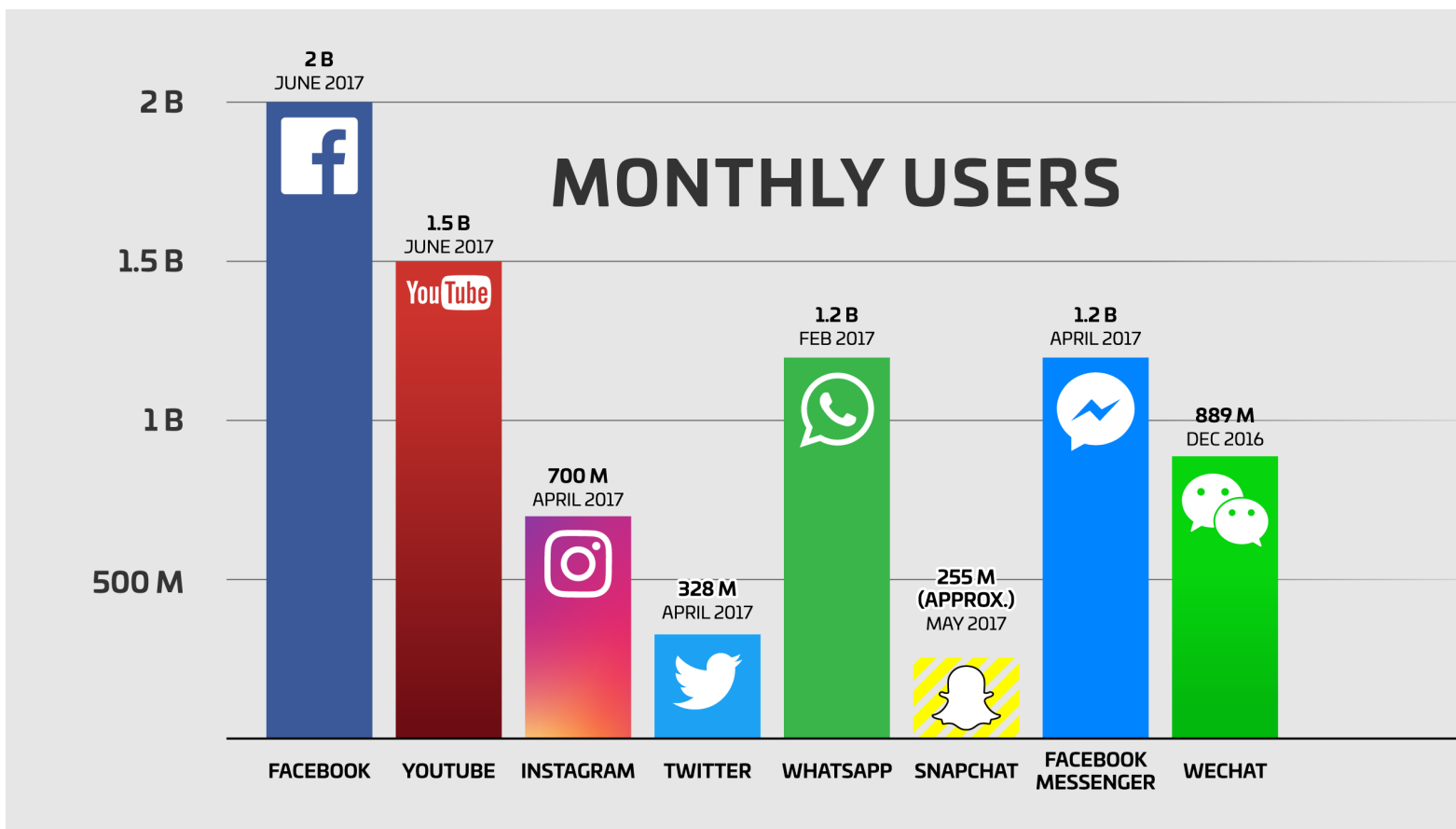
To start download, [click here](#).

Close Window

## What We Know?



# What We Know?



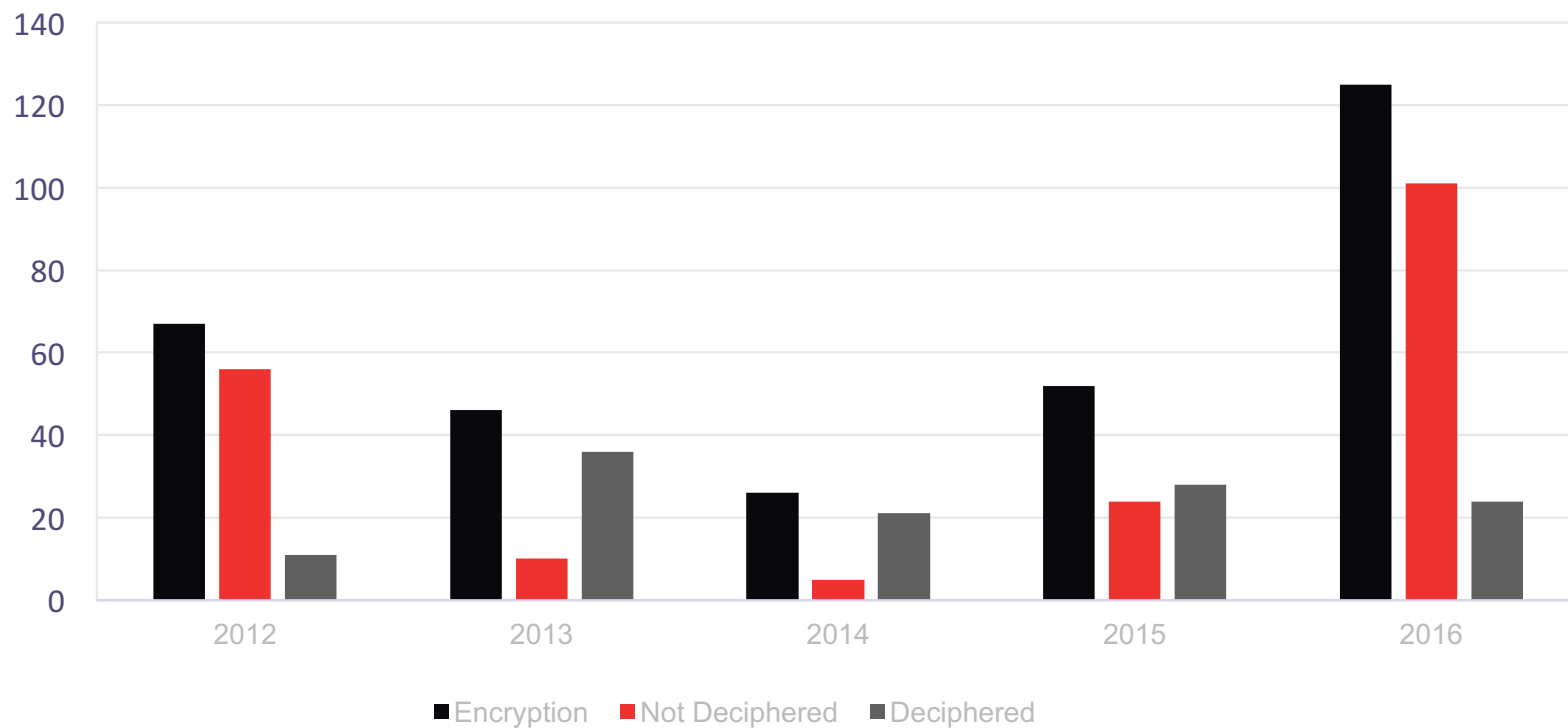
# What Are The Arguments?

## Government

- To protect and serve
- Going dark
- Lawful access to evidence
- Exceptional access to evidence
- Trusted escrow service
- LE requests are more complex
- CALEA is not modernized



## Going Dark?



### Encryption Status of Reported Wiretaps



# What Are The Arguments?

## Corporations

- Obligation to protect the user
- Law enforcement requests are a burden
- Government shouldn't force software changes
- Don't stifle innovation
- Forward secrecy is the future



# What Are The Arguments?

## Cypherpunks

- Slippery slope for law enforcement methods
- Government misuse
- Backdoors will make everything unsafe
- Govt and Corp can't grant us privacy
- Not anti-Govt





— AWAKEN THE FORCE WITHIN —

## CHOOSE YOUR SIDE

Drag to transform your Google experience across Gmail, Google Maps, and more. [See how](#)



LIGHT SIDE



SIGN IN

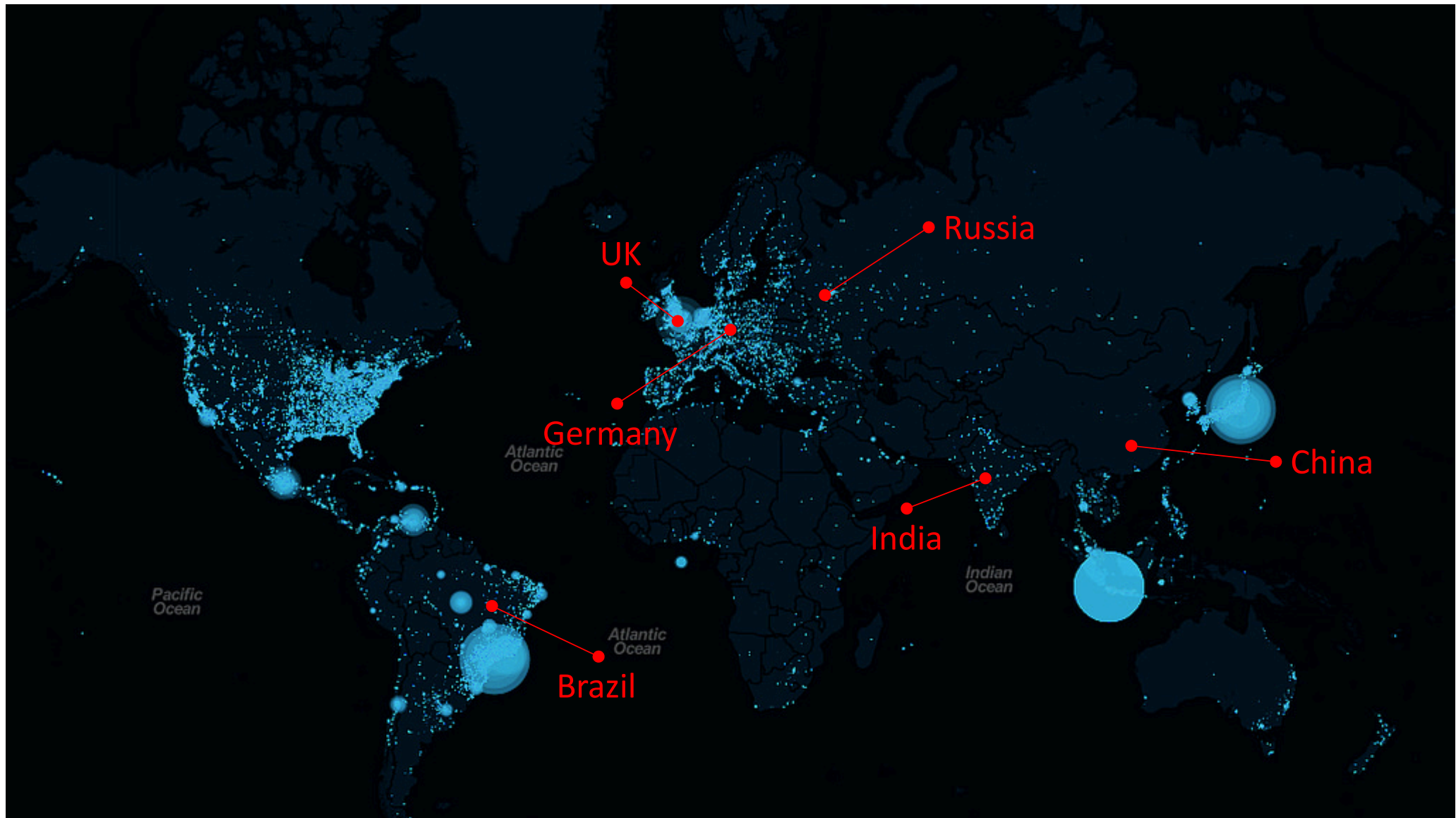


DARK SIDE

Don't have a Gmail account? [Sign Up](#)

# Good News Everyone...Bad News!

- Privacy is dead
- Governments are losing visibility
- State/locals will need serious help
- Backdoors to encryption don't work
- No exceptional access policy is defined
- Big data has no legal boundaries anymore
- "The Cloud" is advancing encryption tech
- Visual data encryption
- Internet is segmenting with data localization laws





# The Future!?



# What Are The Alternatives?

- Exceptional access
- Enhanced metadata collection (IoT)
- Network investigative techniques
- Better big data analytics
- HUMINT
- Better collaboration and cooperation from service providers
- Law enforcement training
- Consolidated practices for requesting data
- Reform of global legal
- Quantum computing :bwaaaahhhhh!!:

“

A qubit a day, keeps encryption away.

”

-Me

A decorative pattern of black polka dots of varying sizes, arranged in a grid-like fashion that tapers off towards the right side of the slide. A single red polka dot is located on the left side of the slide, near the center.

Thank you

Jason Truppi - @NotTruppi