

# **THE INTERNET!**

**SURVEY OF PROFESSIONAL MEDIA  
LINDENWOOD UNIVERSITY  
FALL 2016**

# **FIRST KNOWN IMAGE ON THE INTERNET**



1992 - First known image posted to the internet.  
Promoted comedy act at CERN laboratory in Switzerland

# **1.8 Billion**

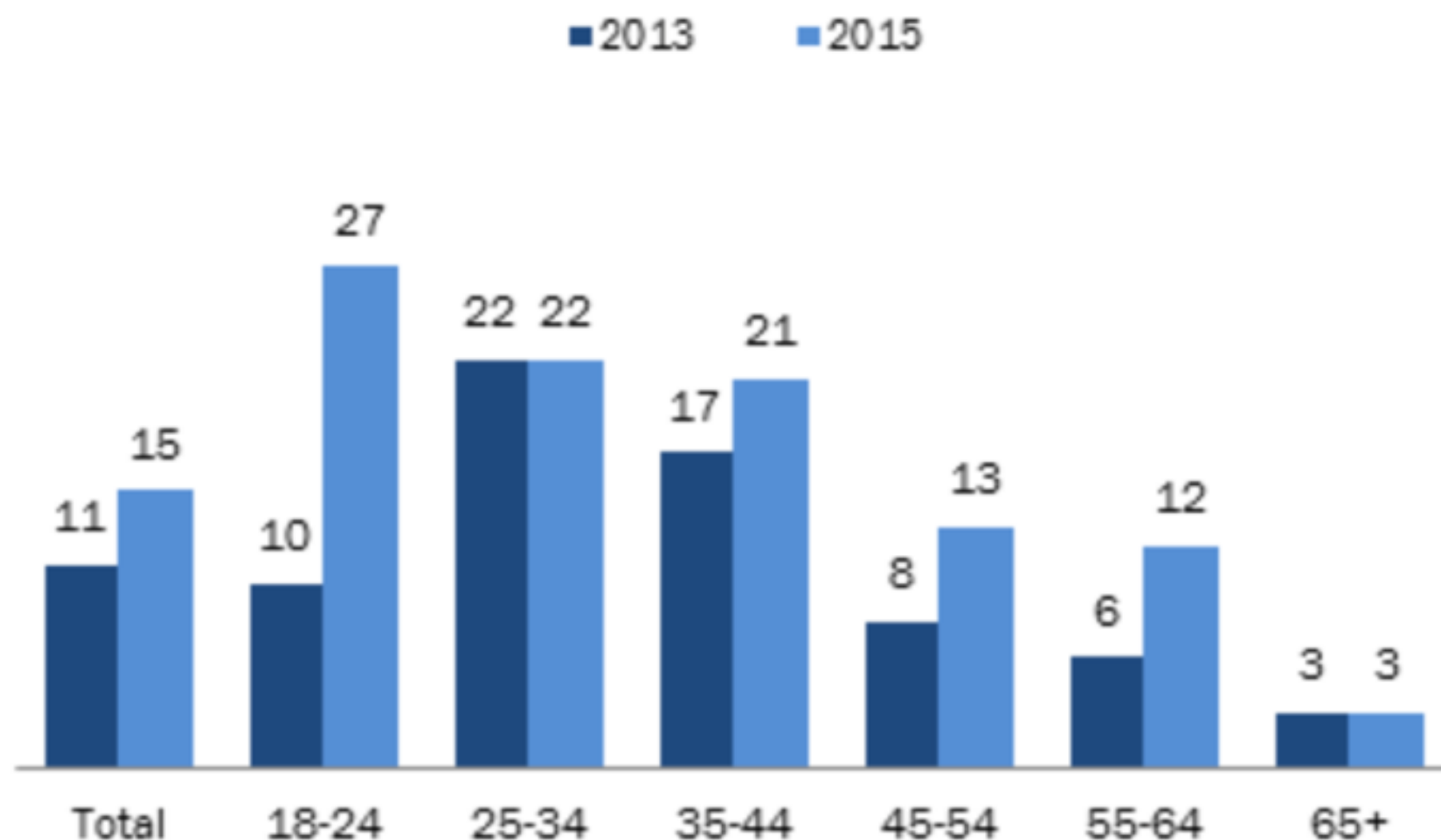
The estimated number of images  
uploaded to the internet  
EVERY DAY  
in 2014

(via *The Atlantic*)

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## Use of online dating sites or mobile apps by young adults has nearly tripled since 2013

*% in each age group who have ever used an online dating site and/or mobile dating app*



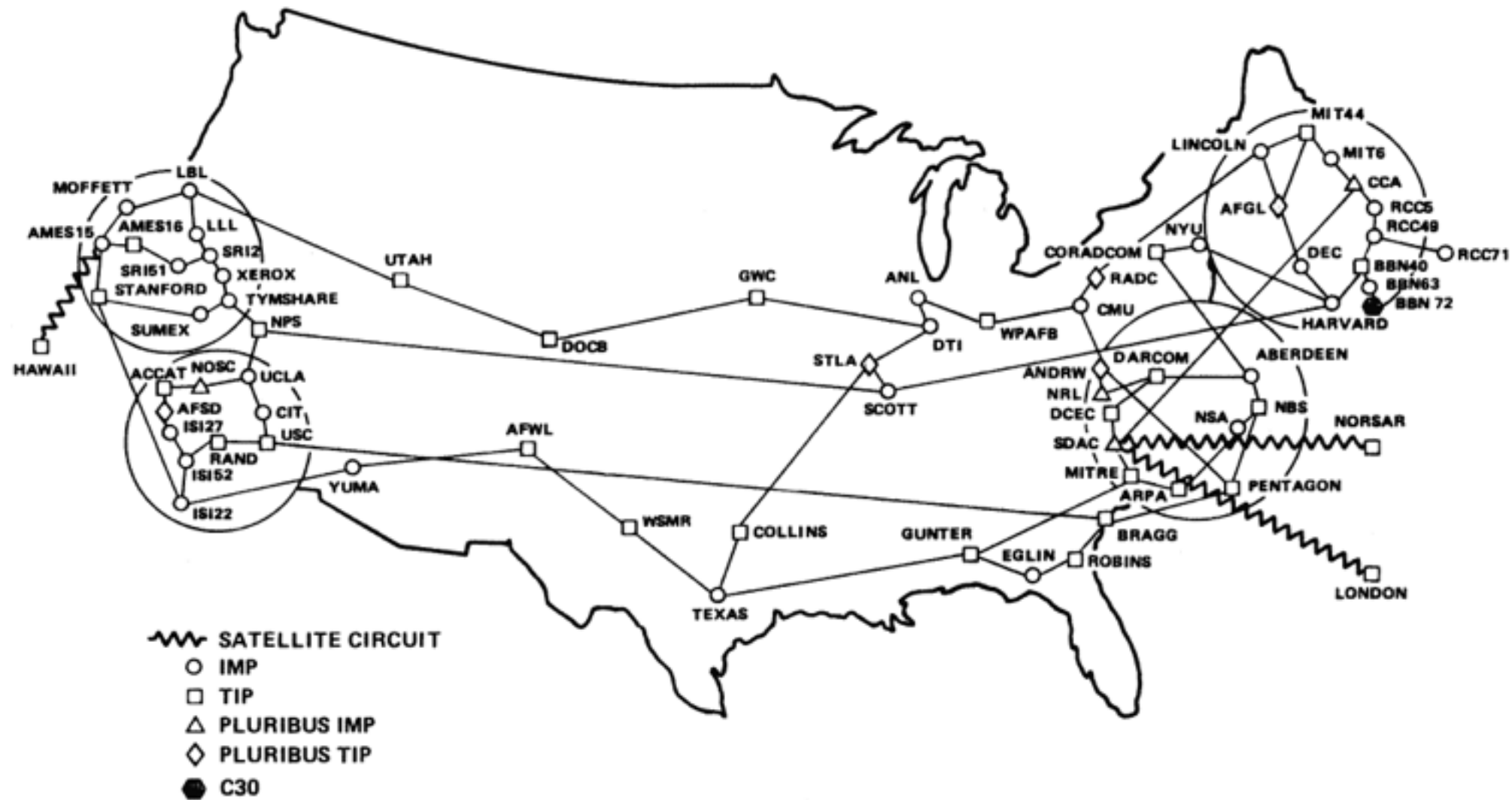
Source: Survey conducted June 10-July 12, 2015.

PEW RESEARCH CENTER

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# THE INTERNET'S EARLY YEARS

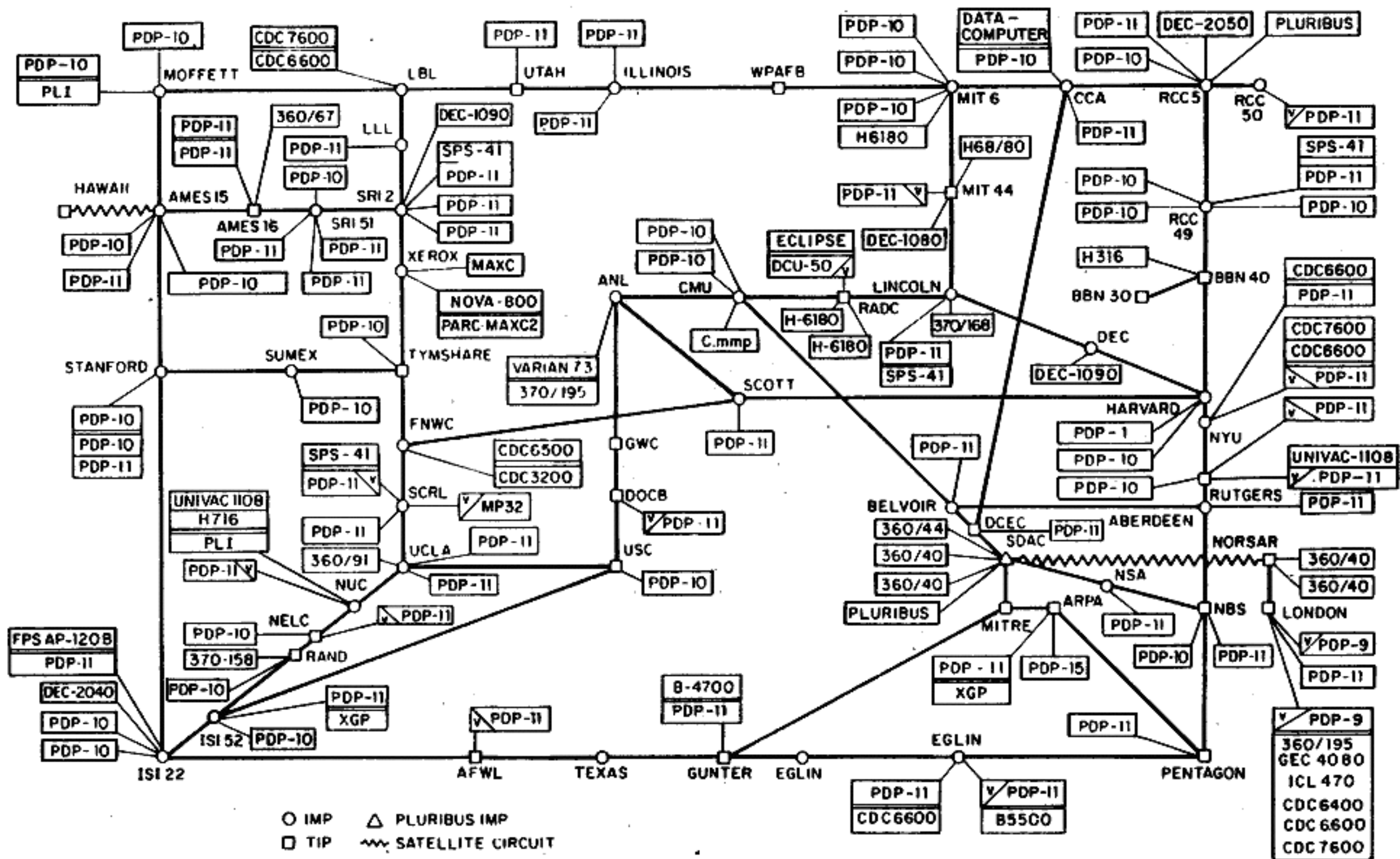
ARPANET GEOGRAPHIC MAP, OCTOBER 1980



(NOTE: THIS MAP DOES NOT SHOW ARPA'S EXPERIMENTAL SATELLITE CONNECTIONS)  
NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES



ARPANET LOGICAL MAP, MARCH 1977



(PLEASE NOTE THAT WHILE THIS MAP SHOWS THE HOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY)

NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES

# US MILITARY ORIGINS



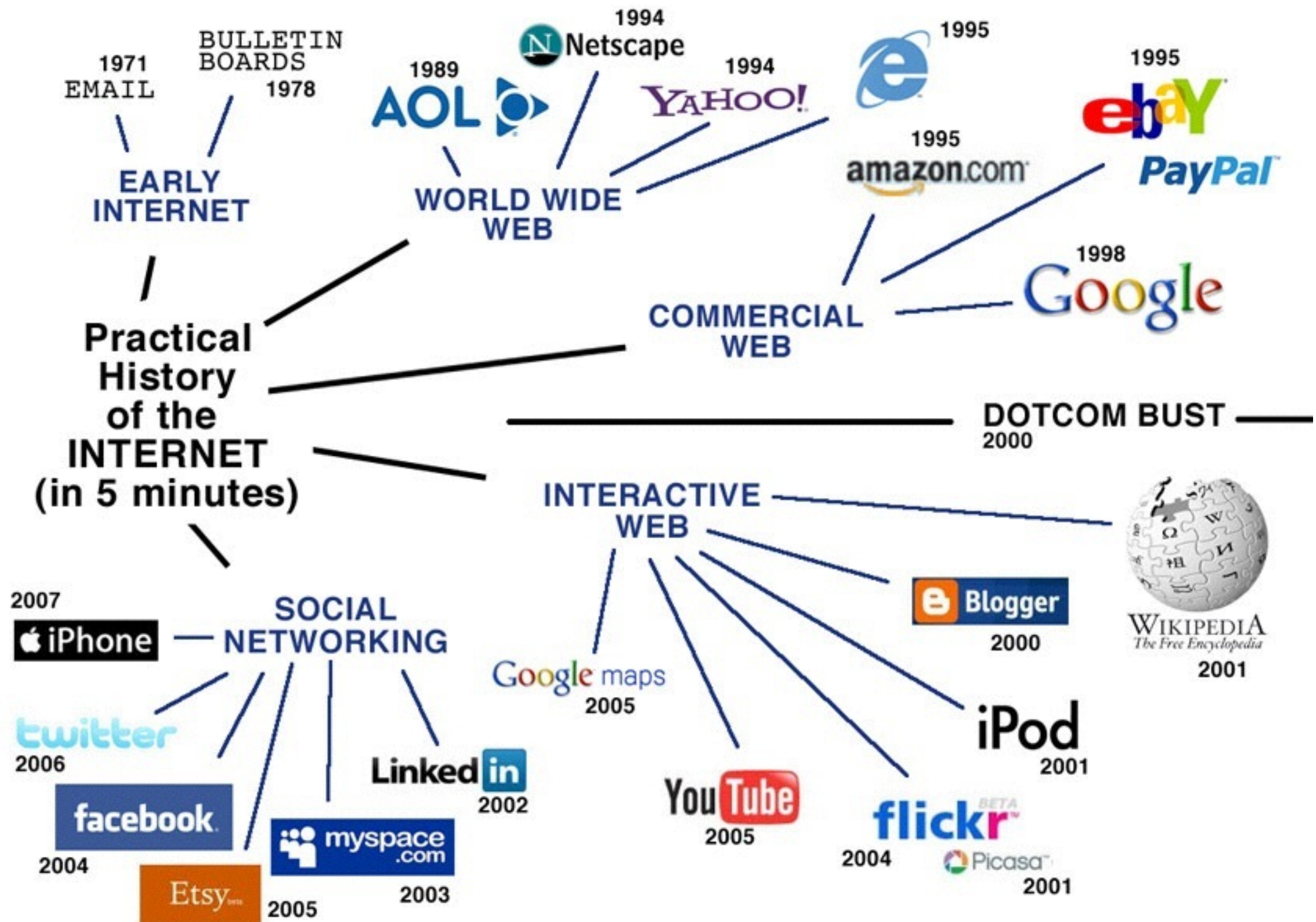
Former Presidential Candidate Al Gore

# **US MILITARY ORIGINS OF THE INTERNET**

- You want to know if someone is trying to kill you...fast.  
WWII/Korean War-era communications - primarily based on radio, printed and written messages, visual signals (lights, flags) were slow. Quicker system needed, especially as Cold War heated up.
- Need led to ARPANET, a Dept. of Defense funded computer communications project, in the late 1960s.
- Al Gore backed legislation that helped ARPANET expand into the internet in the 1980s and 1990s.
- Britain, France also leaders in early internet development efforts



# CIVILIAN USE





# Global Web Traffic, 2011.



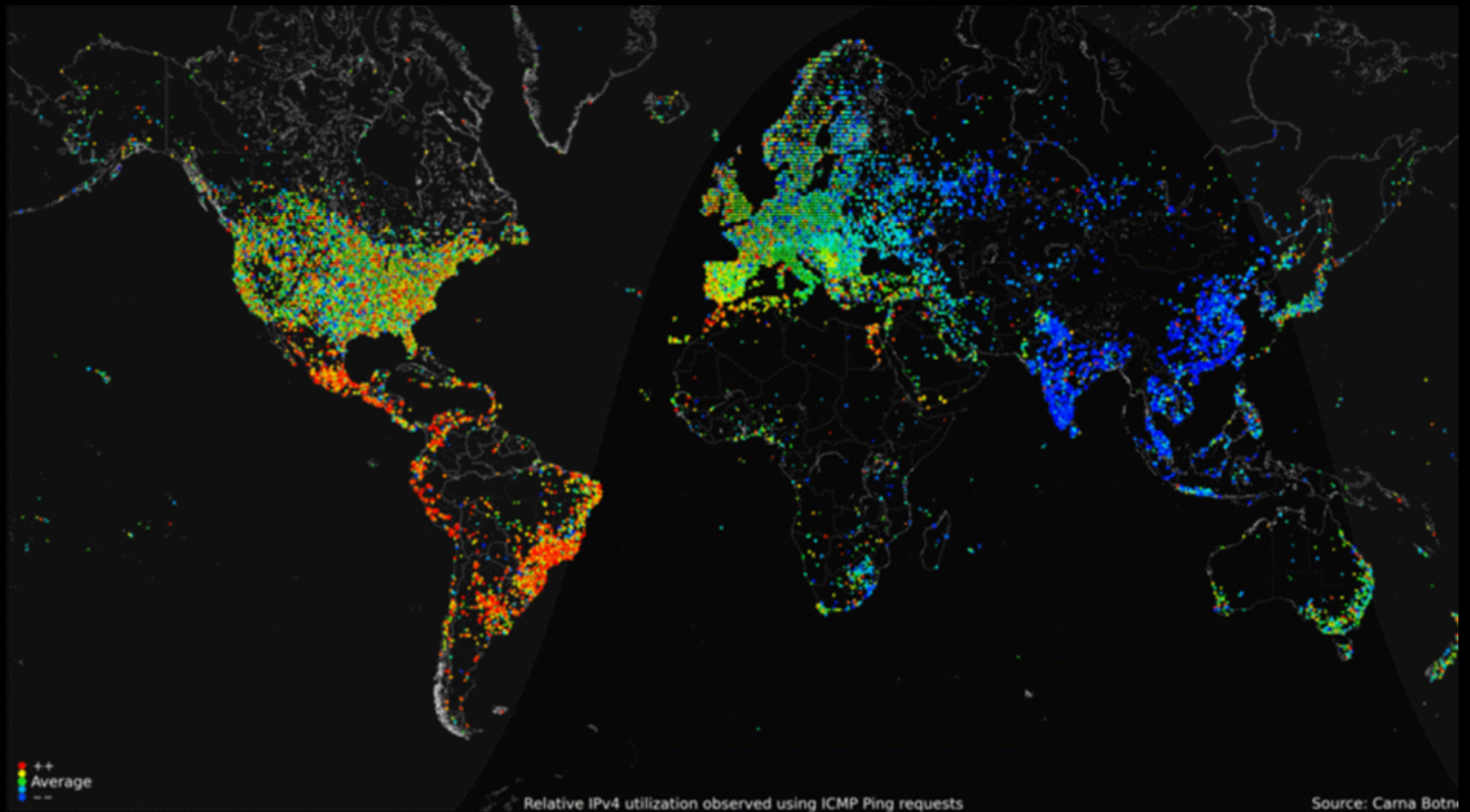
**350,000 Websites Recorded**

**Colors Represent Countries (196 represented)**

**Proximity of Bubbles = Connections Between Sites**



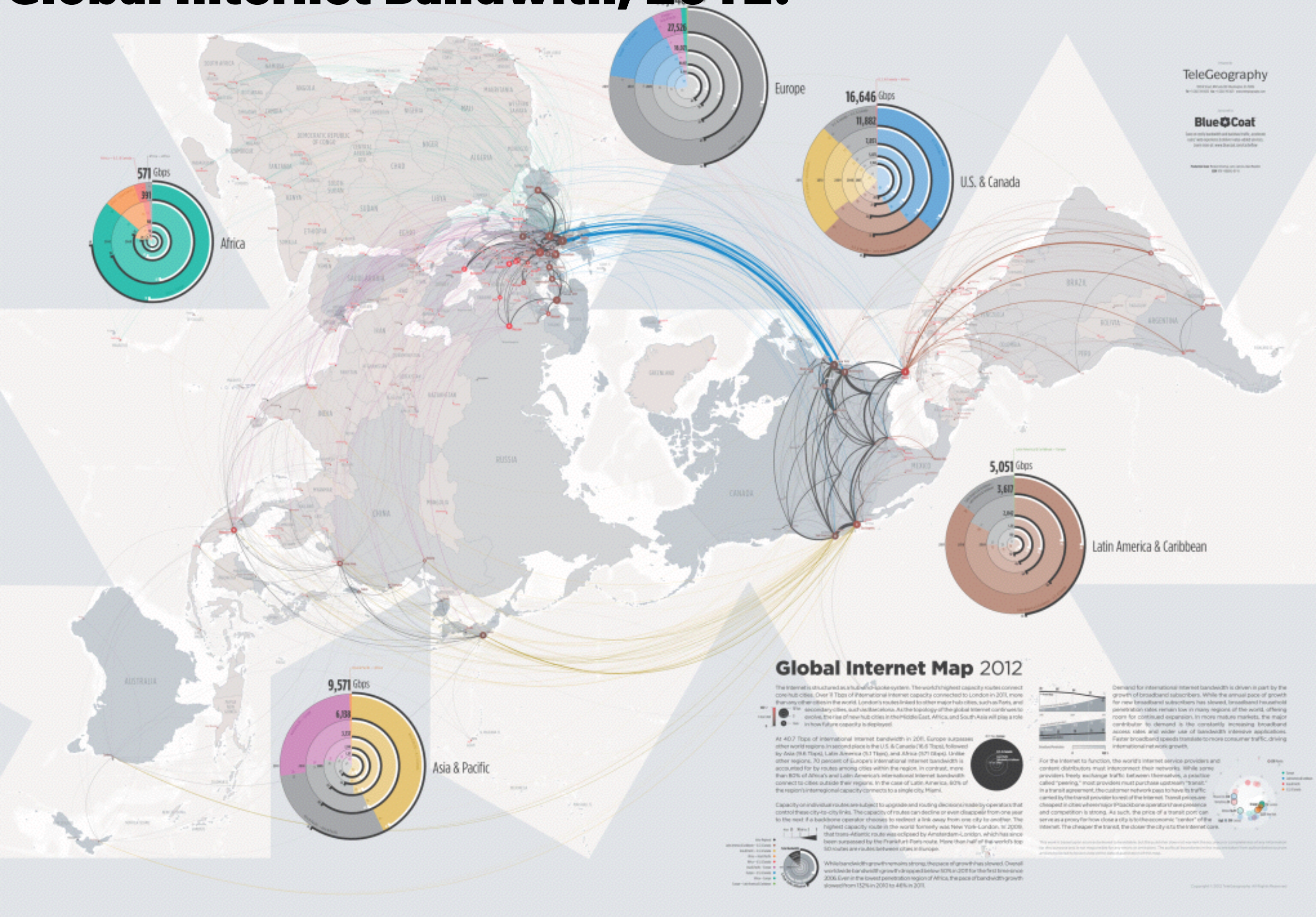
# IP ADDRESS MAP, 2013.



**Made Illegally by a Hacker**  
**Pinged IP Addresses of Hundreds of Thousands of Devices**



# Global Internet Bandwidth, 2012.







AMERICA



## Somebody Is Cutting Internet Cables In California

July 1, 2015 · 1:49 PM ET



BRIAN NAYLOR

The FBI is investigating a [string of recent physical attacks](#) on Internet cables in the San Francisco Bay Area.

The most recent occurred early Tuesday morning, [reports The Wall Street Journal](#), hitting "several cables in Livermore, Calif., shortly before 4:30 a.m. Pacific time and hadn't been repaired as of early Tuesday evening, according to several Internet service providers affected by the outage."

The FBI has asked for the public's help in finding those responsible for the attacks.

[According to USA Today](#), there have been at least 11 attacks since a year ago. The newspaper adds:

"FBI agents declined to specify how significantly the attack affected customers, citing the ongoing investigation. In Tuesday's attack, someone broke into an underground vault and cut three fiber-optic cables belonging to Colorado-based service providers Level 3 and Zayo.

"The attacks date back to at least July 6, 2014, said FBI Special Agent Greg Wuthrich.

**Internet Infrastructure  
is a national security  
concern.**



# **US INTERNET INFRASTRUCTURE MAP, 2015**



Developed by Univ. of Wisc./DHS, shows physical locations of fiber-optic cables crossing US with internet data.

# **The US from Space, NASA.**



# **THIS IS WHAT WE KNOW ABOUT,** **BUT THERE'S A LOT WE DON'T**

There are a multitude of uses of the internet that the public is generally unaware of:

- Military (Spying, Communications)
- Criminal (Drugs, Murder for Hire, Prostitution)
- Commercial (Corporate Spying)
- Dissent (Anonymous, Arab Spring, Black Lives Matter)