

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

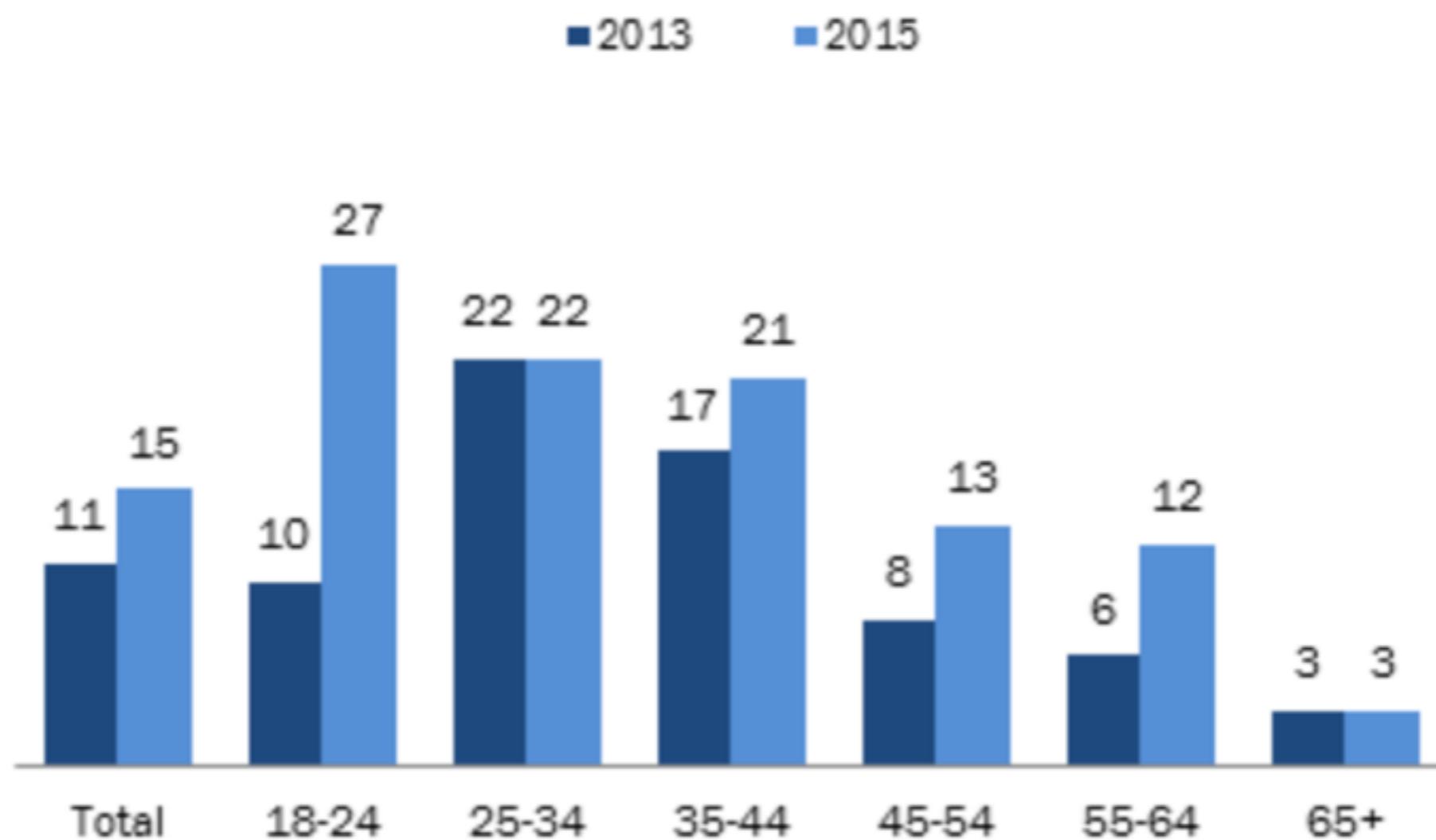
1.8 Billion

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

(via *The Atlantic*)

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

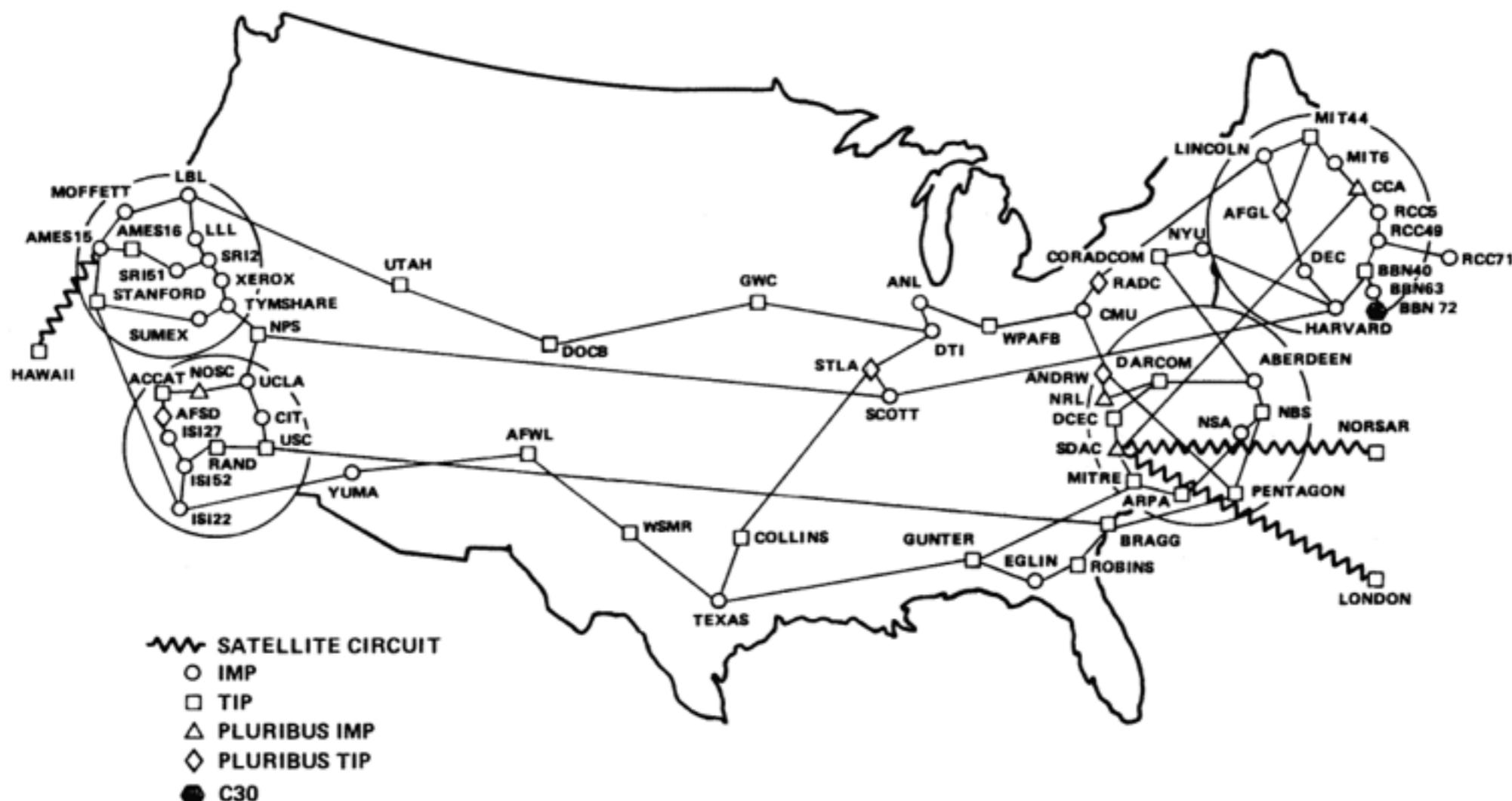


Source: Survey conducted June 10-July 12, 2015.

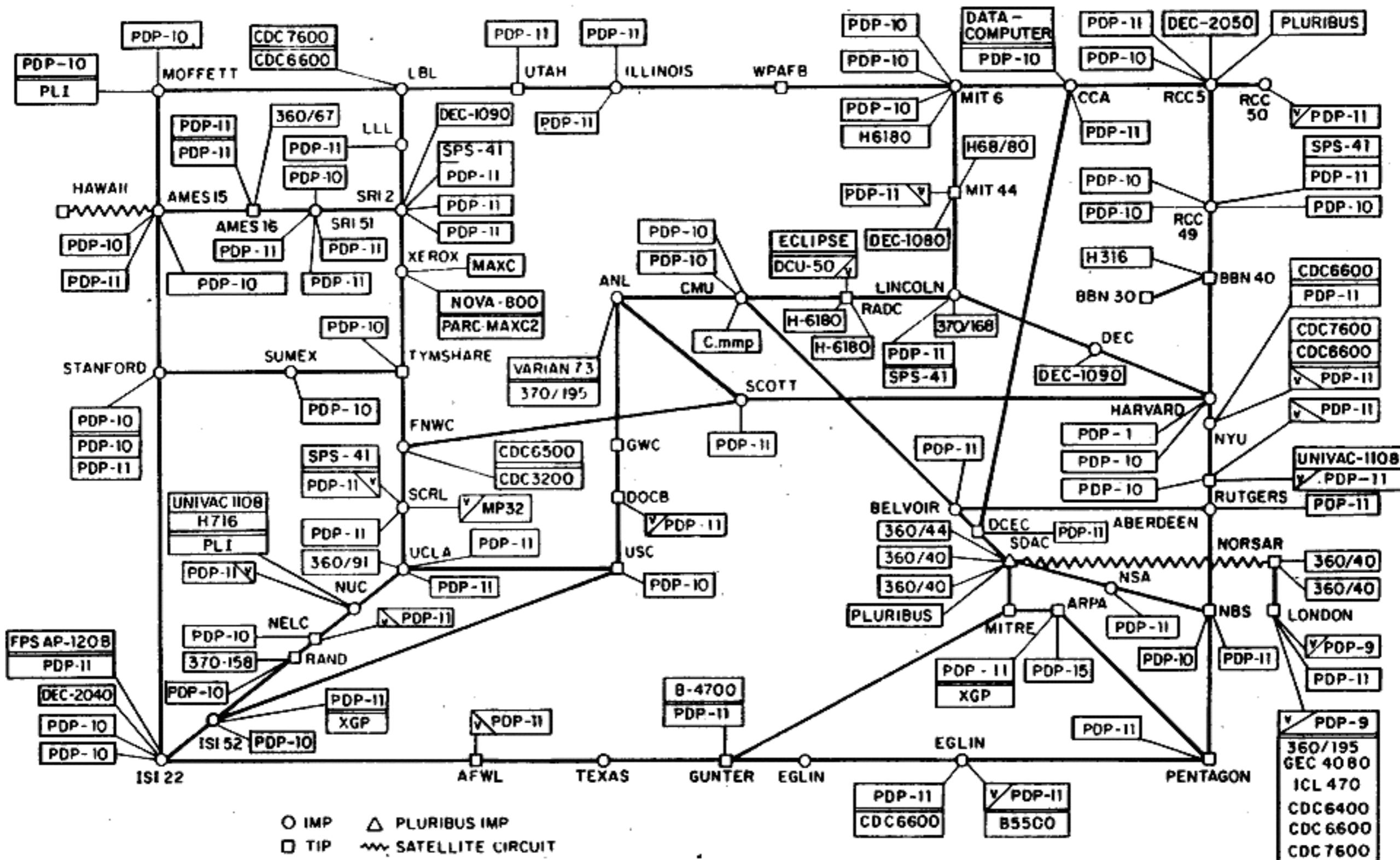
PEW RESEARCH CENTER

THE INTERNET'S EARLY YEARS

ARPANET GEOGRAPHIC MAP, OCTOBER 1980



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

360/195

GEC 4080

ICL 470

CDC 6400

CDC 6600

CDC 7600

US MILITARY ORIGINS

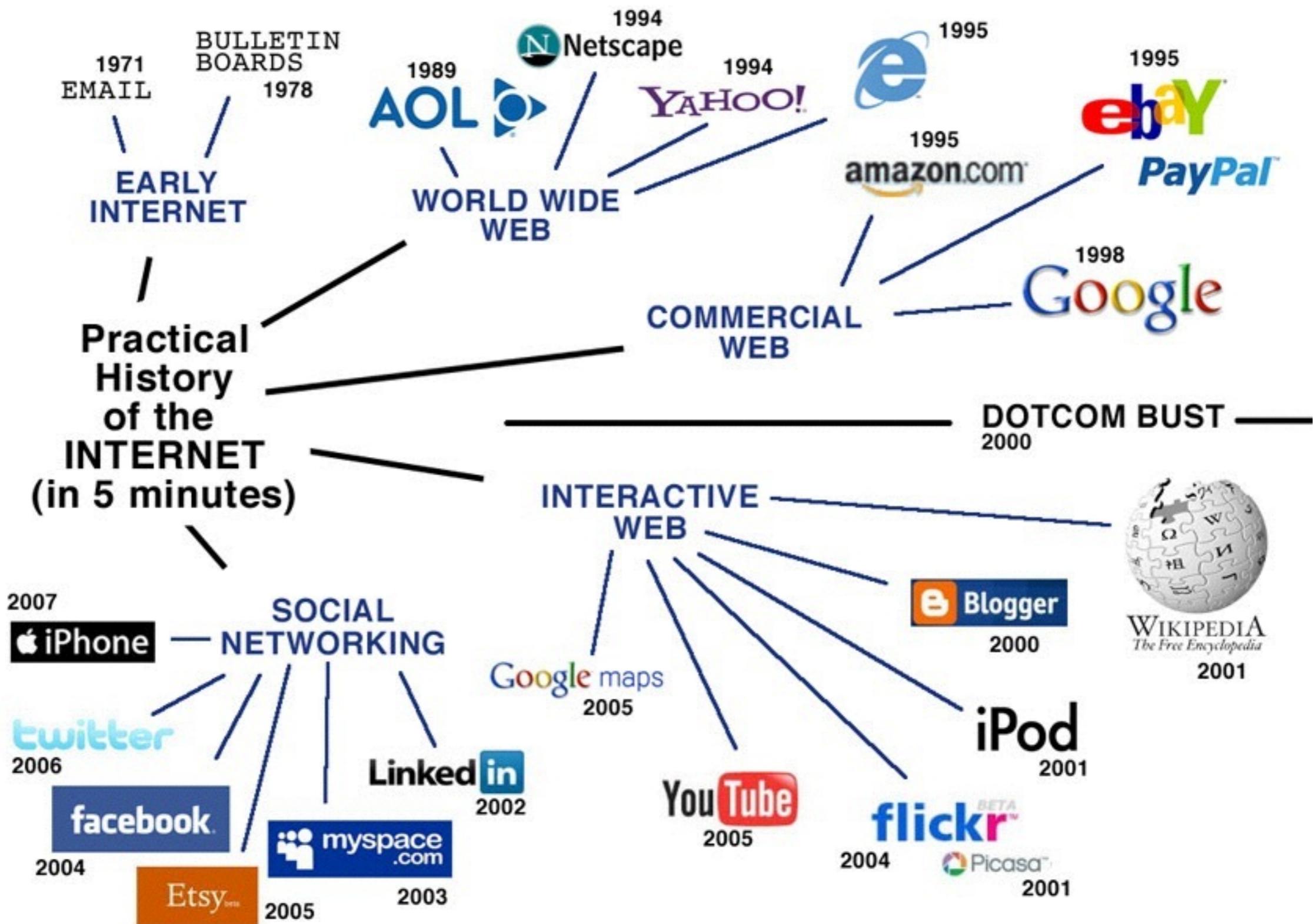


Former Presidential Candidate Al Gore

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.

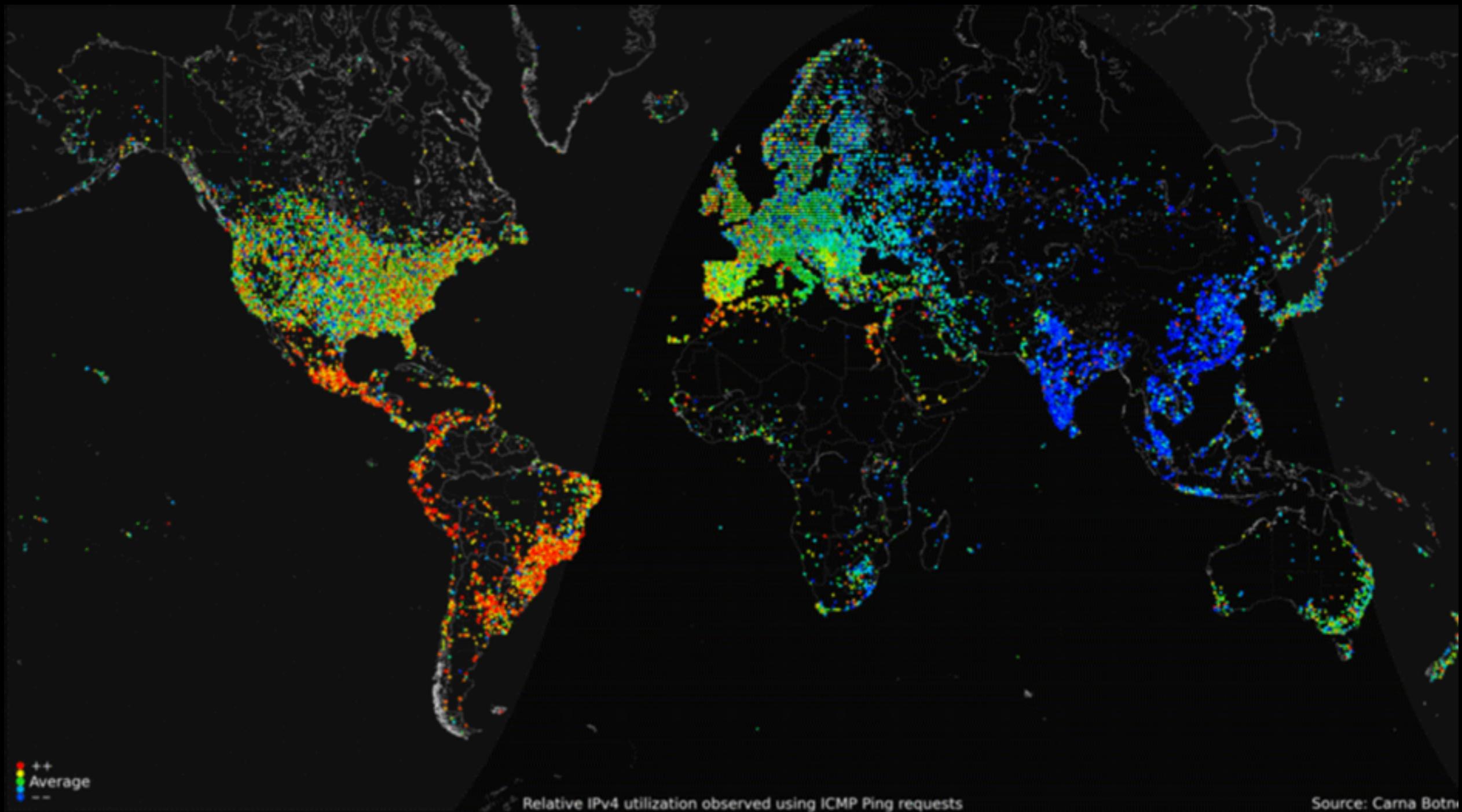


350,000 Websites Recorded

Colors Represent Countries (196 represented)

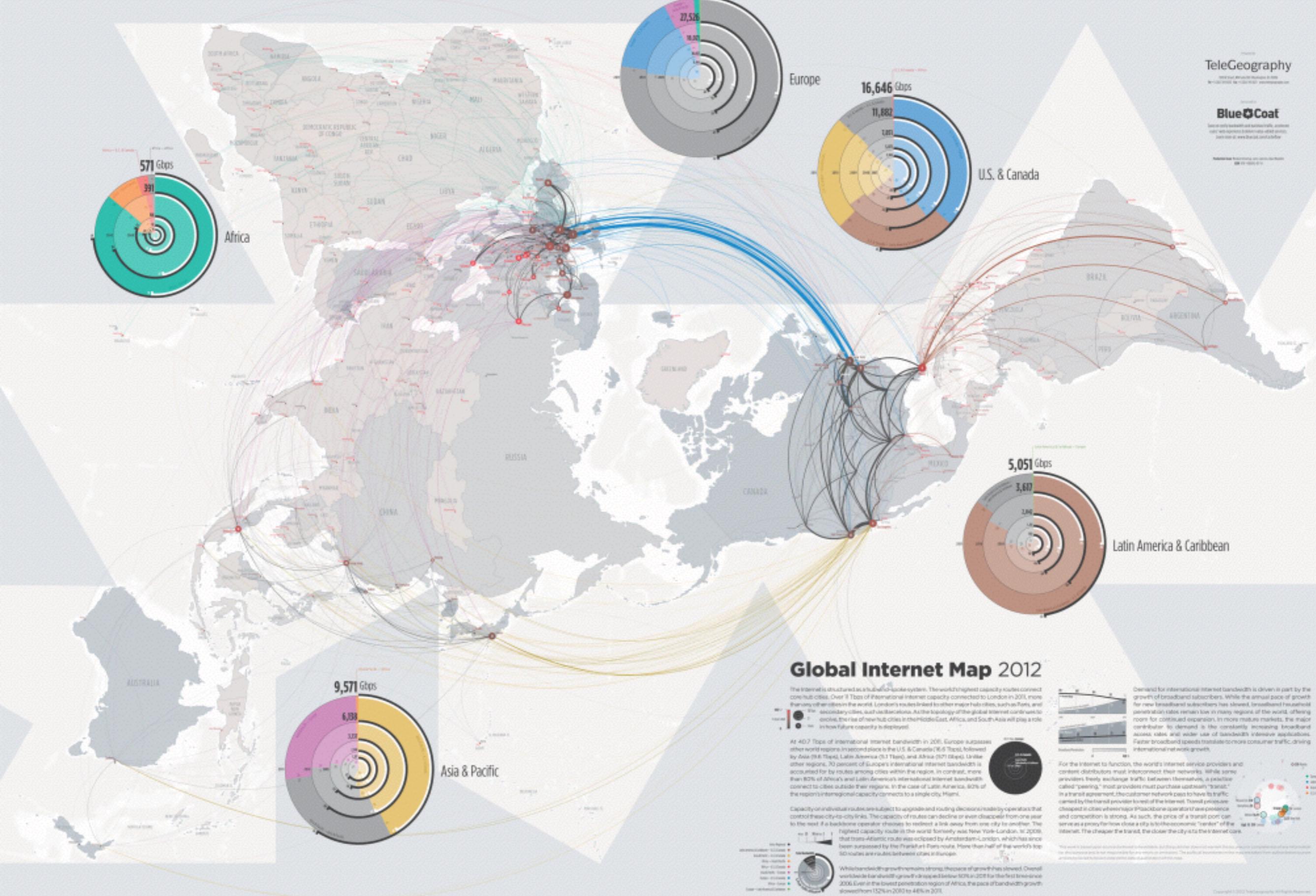
Proximity of Bubbles = Connections Between Sites

IP ADDRESS MAP, 2013.



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

Global Internet Bandwidth, 2012.





AMERICA



8+



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)