

History of the Internet

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THE INTERNET IN **2023** EVERY MINUTE



Created by: eDiscovery Today & LTMG

1. Where and how did the internet start?
2. How does the technology work?
3. How did the internet get to be so widespread?
4. What's in store for the future?

1 Where and How did the Internet Start?

- **Satellite**
- Sputnik (1957) Russians-Cold War
- Advanced Research Projects Agency (ARPA) (1958) Eisenhower

ARPANET

- Bolt, Beranek and Newman (BBN)
- Computer network
- **University California** (LA and **Santa Barbara**), Stanford Research Institute, **University of Utah**.
- 1st message "**Login**" – 1969 (October 29th) Charley Kline (UCLA)

1 Where and How did the Internet Start?

Radio Network

- Connect ARPANET to packet radio network (PRNET) – 1973 (use radio waves not phone lines)

Inter-Networking

- Electronic Mail @ – Ray Tomlinson (engineer BBN) (ARPANET) - 1972
- TCP/IP (Transmission Control Protocol/Internet Protocol) established – 1974
- **Internet coined - 1974**

Many Firsts

- 1st PC Modem – 1977
- **1st SPAM – 1978** 400 emails on ARPANET

1 Where and How did the Internet Start?

Many Firsts

- 1st PC Modem – 1977
- 1st SPAM - 1978
- **1st Emoticon Scott Fahlman, :-)** and :-(
1982 Carnegie Mellon message board

Standards

- Domain Name System (DNS) - 1984
- Internet Relay Chat (IRC) - 1988

Worm

1st computer worm unleashed Morris Worm - 1988

WWW

- **Tim Berners-Lee**
- HTTP (hyper text transfer protocol) proposed to CERN
- www – 1989

More Firsts

- Dial Up ISP (commercial) - 1990
- 1st web site (text based) – 1991
- 1st content based search Gopher - 1991
- 1st graphical web browser MOSAIC – 1993
- Introduction of .gov and .org domains – 1993
- 1st Secure Sockets Layer (SSL) NETSCAPE (payments) – 1995
- Ebay and Amazon - 1995
- 1st webmail service HOTMAIL – 1996
- Google and Napster – 1998

Continued (2000 – 2010)

- MySpace, iTunes, Wikipedia, Skype, Facebook, LinkedIn, Flickr, Youtube, Twitter

.....

The Internet and the Web are NOT the same thing

2 How does the Technology Work?

Wire

- Copper,
- Fiber Optics
- Satellite

- Servers
- Websites (files)
- Routers

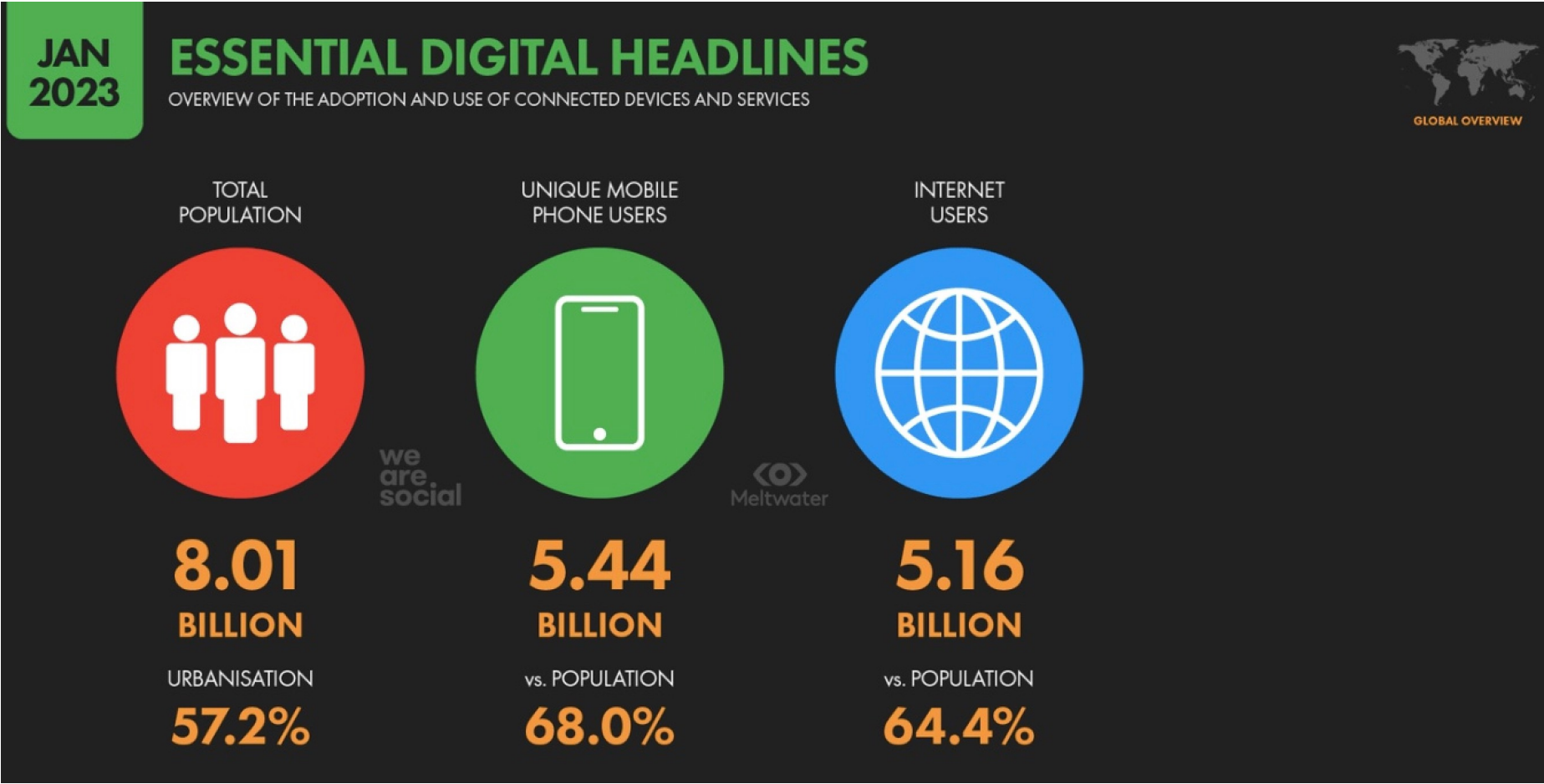
- Packet send
and deliver

- Web 3.0 Third version of the Web

Decentralised, Openness, Artificial Intelligence

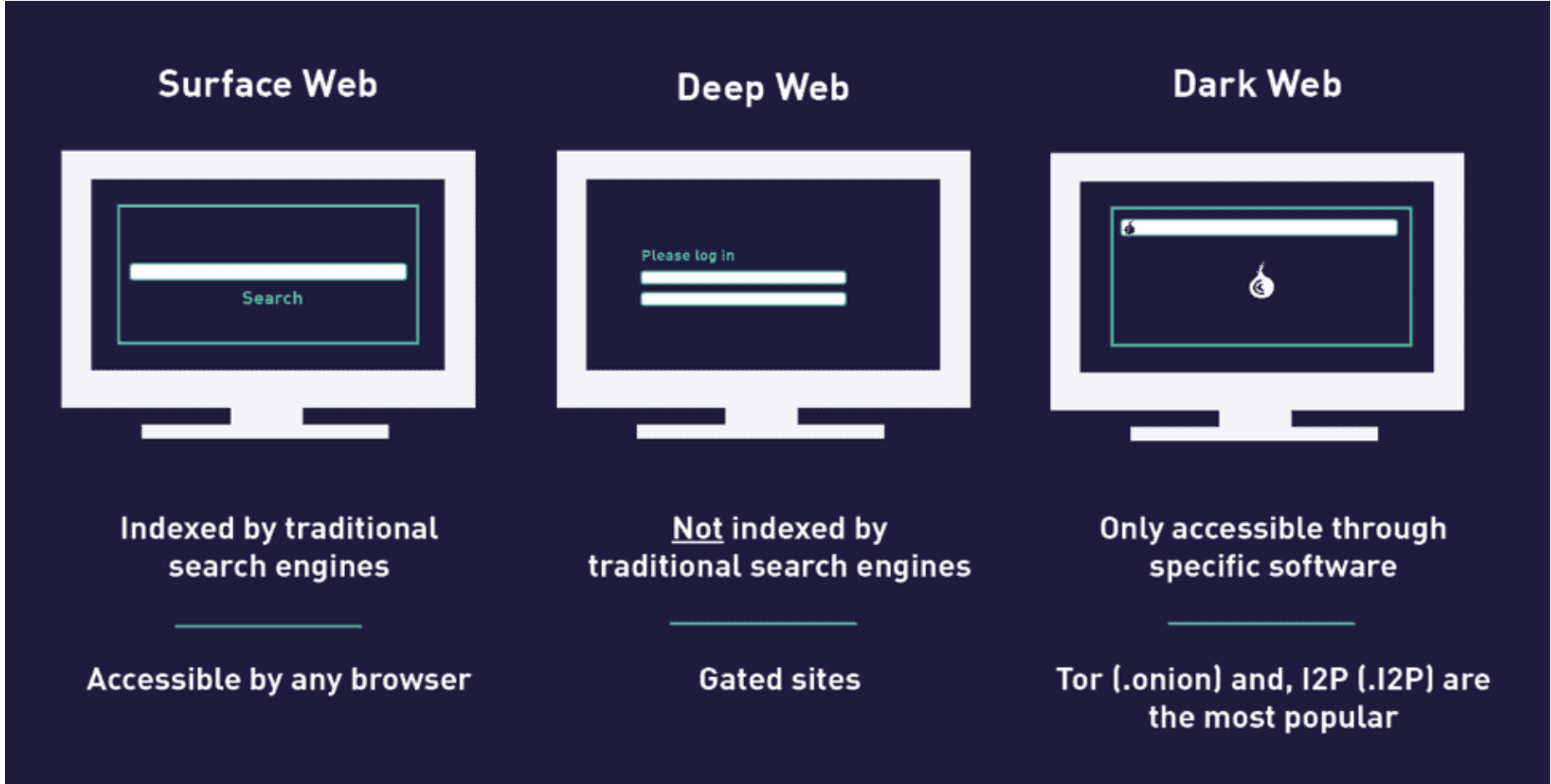
Transfer 'power' from centralised corporations **to creators and individuals**

3 How did the Internet get to be so widespread?



Approx. 35% NOT connected

3 How did the Internet get to be so widespread?



4 What's in store for the future?

- Soon EVERY device you own and nearly every object you can imagine: fridges, cars, windows, smoke alarms, clothes...
- WILL be connected to the internet
- EVERY SURFACE could become a screen and internet connected, including humans: eyes, brains and skin!