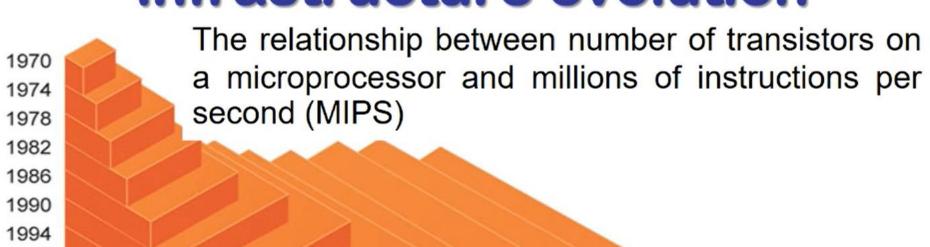
Moore's law and microprocessing power

Has been interpreted as:

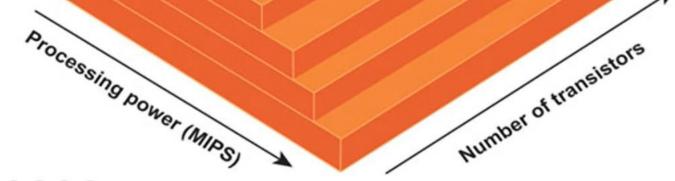
- •The power of microprocessors doubles every 18 months
- Computing power doubles every 18 months
- The price of computing falls by half every 18 months

By using nanotechnology, chip manufacturers can shrink the size of transistors down to the width of several atoms







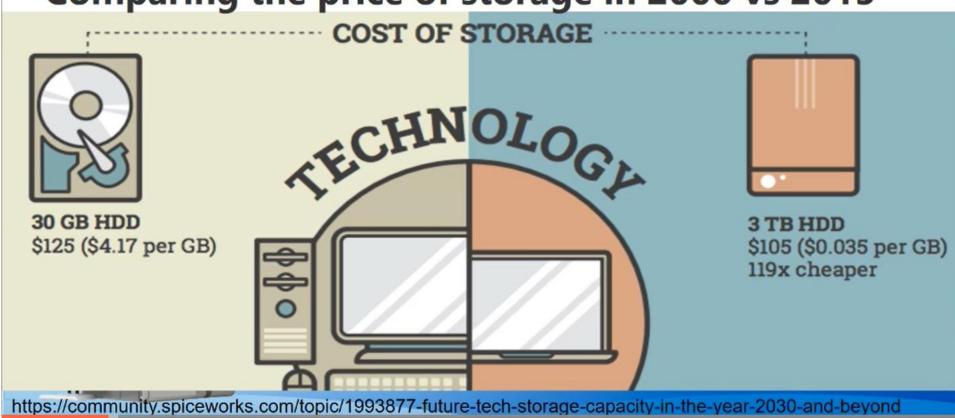


200,000

The Law of Mass Digital Storage

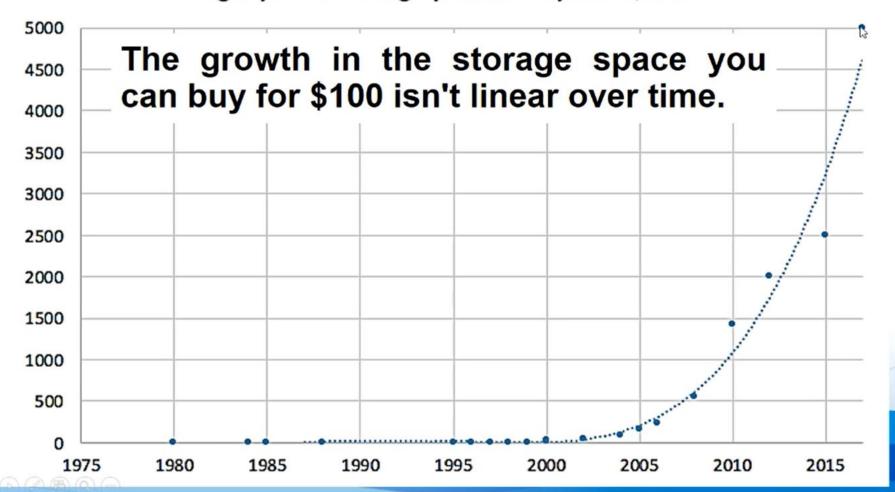
•The cost of digital storage is rapidly decreased.

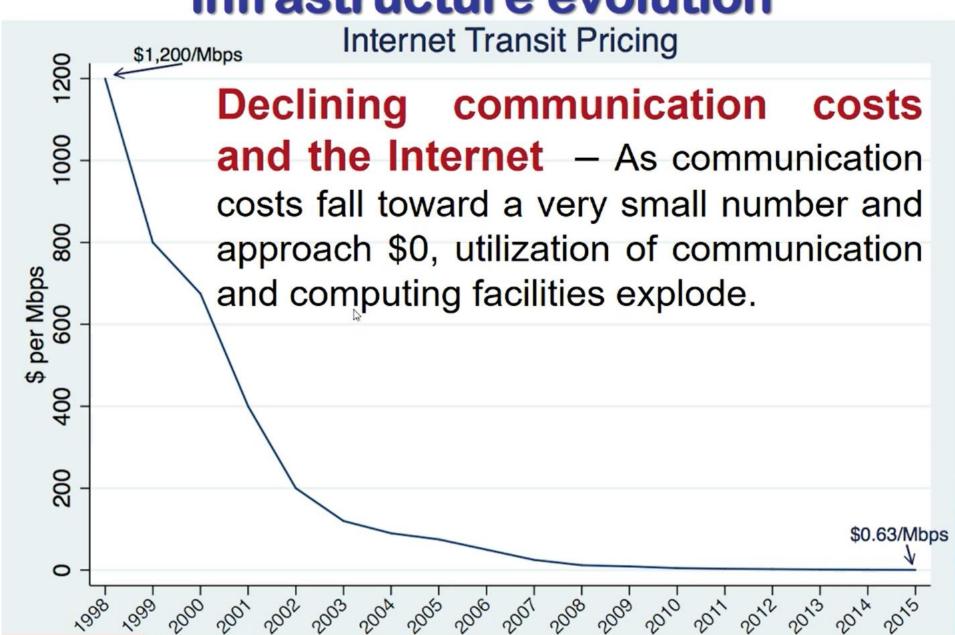
Comparing the price of storage in 2000 vs 2015



Technology drivers of infrastructure evolution The Law of Mass Digital Storage

Gigabytes of storage you can buy with \$100





Standards and network effects

- Technology standards:
- Specifications that establish the compatibility of products (with agreements among manufacturers) and the ability to communicate in a network
- Unleash powerful economies of scale and result in price declines as manufacturers focus on the products built to a single standard

Some important standards: ASCII, Ethernet, WWW



Standards and network effects

- **ASCII:** Made it possible for computer machines from different manufacturers to exchange data; later used as the universal language linking input and output devices such as keyboards and mice to computers.
- Ethernet: A network standard for connecting desktop computers into local area networks that enabled the widespread adoption of client/server computing and LANs.
- WWW: Standards for storing, retrieving, formatting, and displaying information as a worldwide web of electronic pages incorporating text, graphics, audio, and video enables creation of a global repository of billions of Web pages.