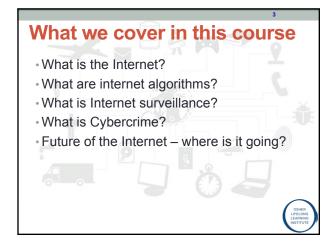


A course focusing on understanding the Internet technologies & its contradictions:



First Lecture.....

- What is the Internet?
- What do we use it for?
- How does the Internet work?
- What runs the Internet?
- Who owns the Internet?
- Who controls the Internet?

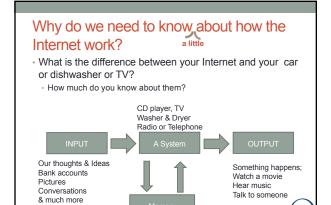
Before we go on.....

- Course web page is available:
- http://web.sonoma.edu/users/fifarahman/ (click on OLLI) • First part (50 min) + 10 min break!
- In the second part we can watch a few movies / demos.
- All updates to the webpage will be available after class.
- Please complete the short survey at the end of each
 each class!

Feel free to ask questions at any time!

A Quick Survey.....

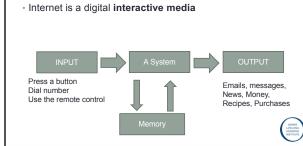
- 1. How many people carry a smart phone?
- 2. How many hours/day do you use the Internet?
- 3. Do you use the Internet mostly on the smart phone or on your computer?
- 4. What are the two most common things you use the Internet for?



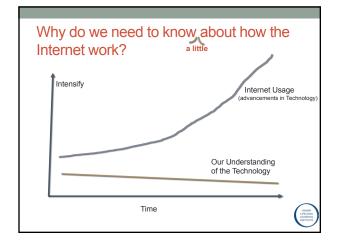


Why do we need to know about how the Internet work?

 What is the difference between your Internet and your car or dishwasher or TV?



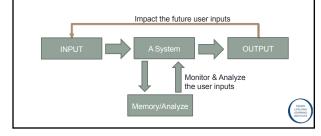






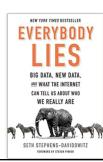
Why do we need to know about how the Internet work? a little

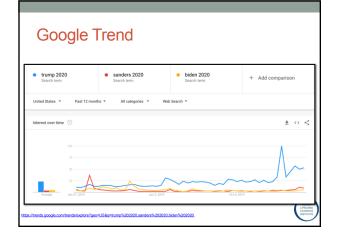
- What is the difference between your Internet and your car or dishwasher or TV?
- Internet is a digital interactive media



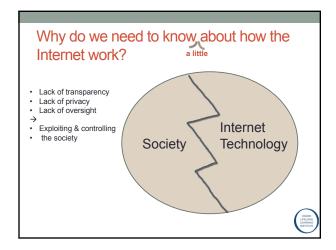


- What is the difference between your Internet and your car or dishwasher or TV?
- Internet is a digital interactive media
 So powerful and reliable that can analyze & even predict our actions
- It can even influence our thoughts and actions
 Example:
- Book: Everybody Lies,



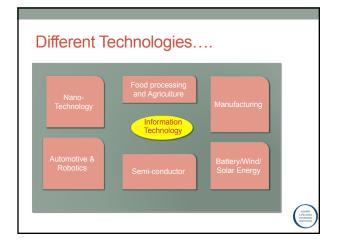


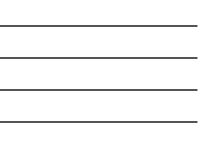


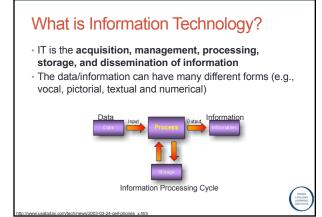


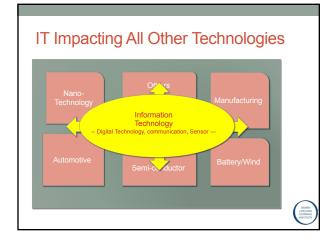


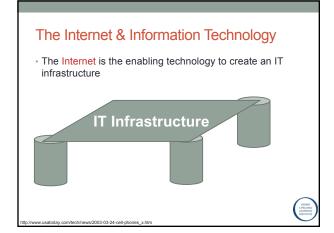








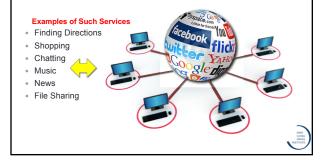


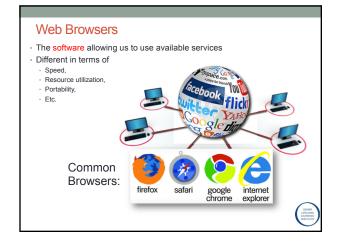


What is the Internet? The Internet is the global system of interconnection between devices – e.g., computers, cell phone, tablets The Network of Networks! Connecting everyone together – road system!

Internet & WWW

 The World Wide Web is a technology that exploits the Internet to enhance delivering many services

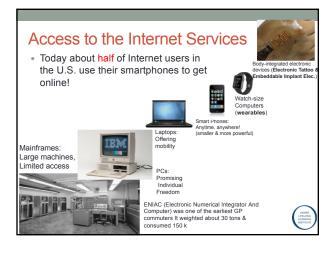










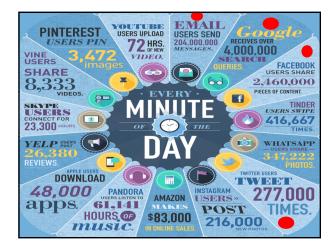




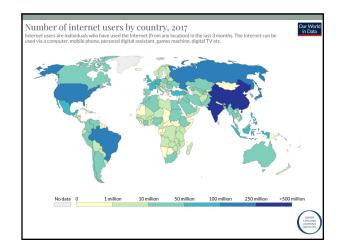


What People Do on Their Smartphones				
	f adults who use their smartphone to he following activities on a typical day Check weather reports and forecasts	52%		
	Use a social networking site	50%		
	Play a game	37%		
	Get news	- 36%		
	Listen to an online radio or music service	22%		
	Check your bank balance or do online banking	21%		
	Get turn-by-turn directions	15%		
	Upload photos online	15%		
	Use Twitter	10%		
	Visit a local, state or federal government website	6%		
	Get coupons to use at local businesses	5%		
	Watch movies or TV through a paid subscription service	4%		
So	urce: Pew Research Center's Internet & American Life Project			

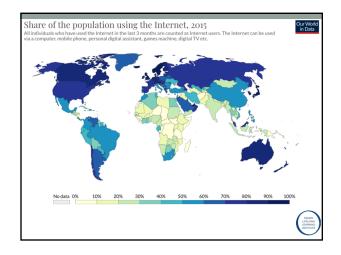




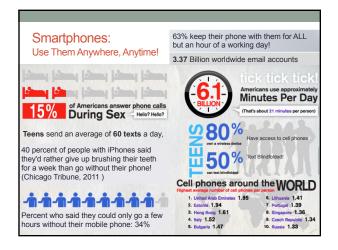


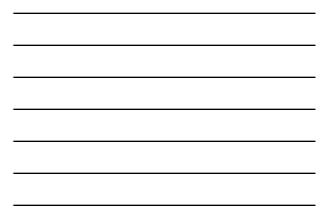




















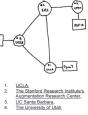
Our Dependency on IT

- Physical & Social dependency
- The Internet is becoming the default forum for many commercial and personal relationships
- Self-expression
- · Communicate with others
- Storage and exchange of information
- For many of us "the virtual world is becoming as real as the physical"

Early Expectations of the Internet!

The Internet Project

- The Internet project started in 1967 (ARPANET)
- A group of scientist began planning a Data Communication Network to exchange messages
- The computer network funded by the DoD
- Two main trusts of the Internet • A network to share resources
- A network to share resources
 New protocols allowing exchange of information



Early Expectations –

- Internet became the technology of liberation
- Techno-utopian dreamers were promising a cybernetic meadow
 Fred Turner coined the term Virtual Reality
- Believed linked computers will link people creating a technological paradise unconstrained by existing physical, social & political boundaries
 The WWW brought the notion of Heavenly City - emerging from
- computer network
- Promising liberation from rules and routines



The Reality of the Internet – Fast forward 40 years

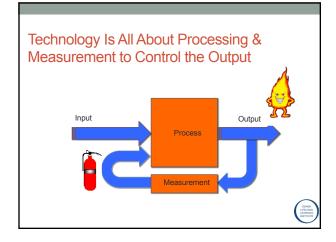
- The Internet turned out to be a powerful and a mysterious new technology
- It empowered us in many ways (revolutionized our lives)!
- Education, Commerce, Healthcare, etc.
- It has also become an instrument of bureaucratic control
 - Creating a conduit of corporate profits
- Replacing human work by smart technology
- Polarizing communities
- · Becoming a "Home of Business" rather than Mind

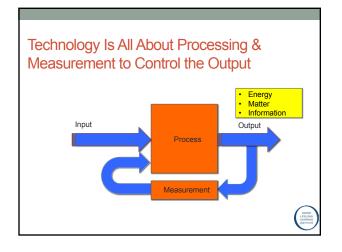


The Reality of the Internet Fast forward 40 years

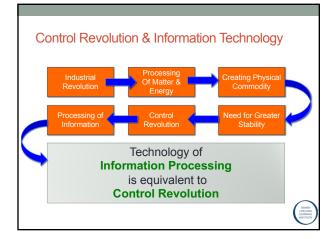
> We focus on "CONTROLLING" power of the Internet technology

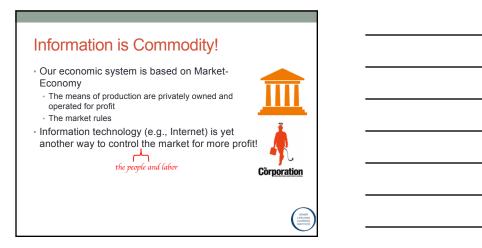












How THE INTERNET Works In Five Minutes

Getting Connected....

15

- Internet Device (e.g., computer or cell phone)
- · Each device has a unique hardware address (called MAC address)
- My phone Wi-Fi MAC: 18:87:00:bf:99:0f
- My MacBook: f0:f4:79:50:df:b6
- Internet Service Provider (ISP)
 - · Examples: AT&T, Vertizon, Netzero, etc.
 - They provide IP (Internet Protocol) address (e.g., 168.34.23.101)
- Also offer services such as email, web page, etc.
- Physical Connection (e.g., cable or phone)
- · Provided by the phone company or the ISP

