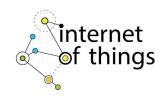
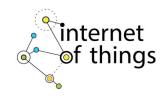


#### What is the "Internet"?



#### What is the "Internet"?

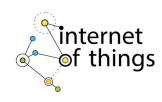
"The Internet is a massive <u>network of networks</u>, a networking infrastructure. It connects millions of computers together globally, forming a network in which any computer can communicate with any other computer as long as they are both connected to the Internet."

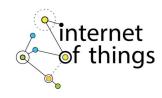


#### What is the "Internet"?

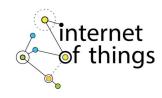
"The Internet is a massive <u>network of networks</u>, a networking infrastructure. It connects millions of computers together globally, forming a network in which any computer can communicate with any other computer as long as they are both connected to the Internet."

WWW, Email, File Sharing, Internet Telephony, Media Streaming, ...



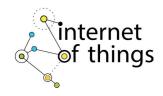


"... the connection of "physical objects to the Internet and to each other through small, embedded sensors and wired and wireless technologies, creating an ecosystem of ubiquitous computing."



"... the connection of "physical objects to the Internet and to each other through small, embedded sensors and wired and wireless technologies, creating an ecosystem of ubiquitous computing."

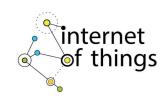
"... 'embedded intelligence' in individual items that can detect changes in their physical state."



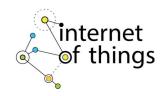
"... the connection of "physical objects to the Internet and to each other through small, embedded sensors and wired and wireless technologies, creating an ecosystem of ubiquitous computing."

"... 'embedded intelligence' in individual items that can detect changes in their physical state."

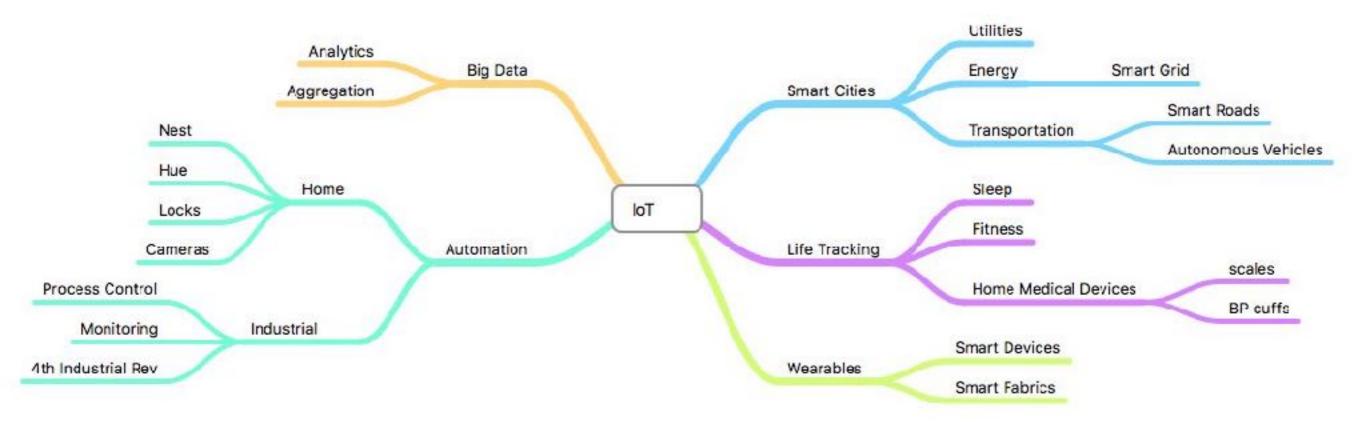
"What all definitions of IoT have in common is that they focus on how computers, sensors, and objects interact with one another and process data."

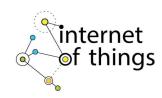


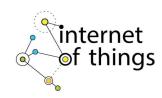
# Examples



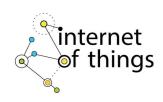
# Examples



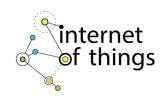




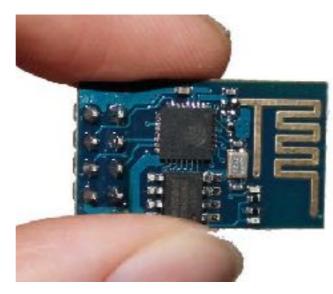
# What Makes Things Smart? Cheap Smart Devices

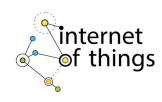




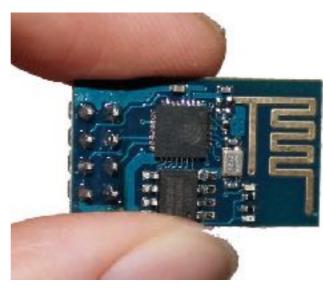


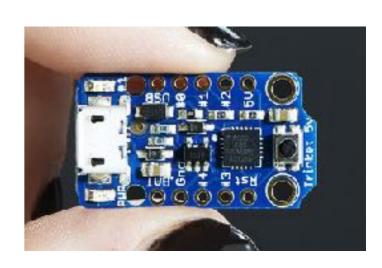


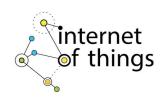




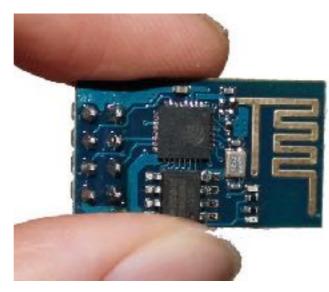






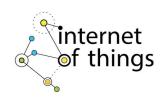




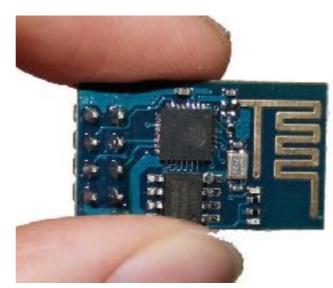


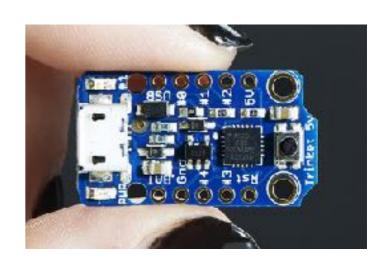






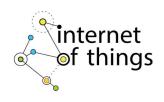




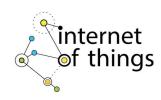






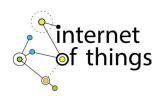






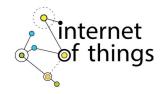


https://www.youtube.com/watch?v=QSIPNhOiMoE





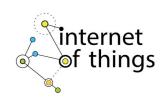
https://www.youtube.com/watch?v=\_AlcRoqS65E

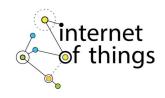


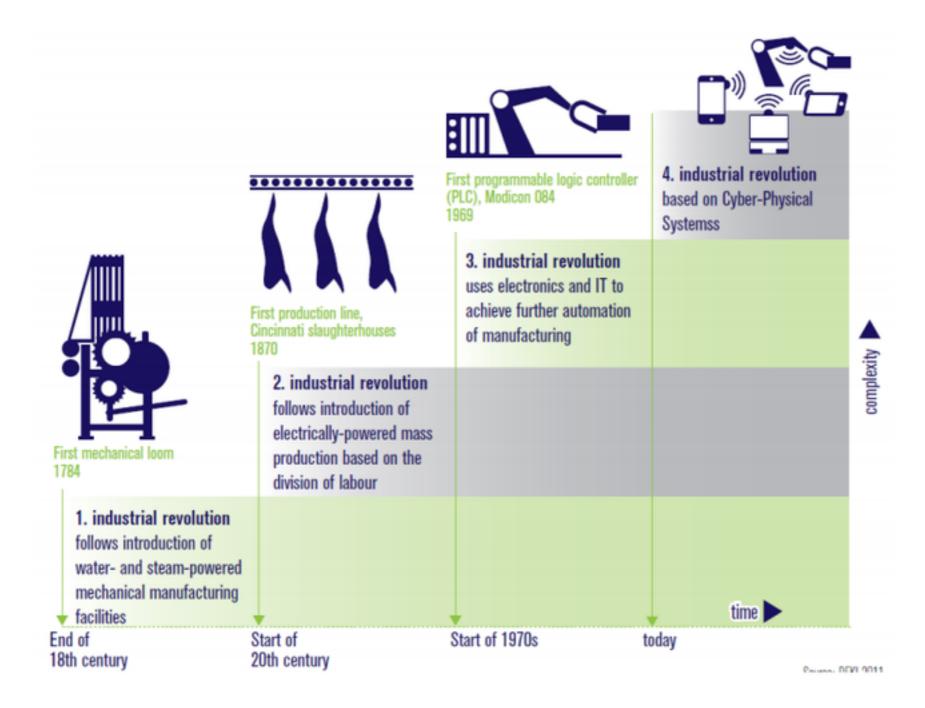
Industry 4.0 is the production-side equivalent of the consumer-oriented Internet of Things, in which everyday objects from cars to thermostats to toasters will be connected to the internet.

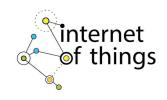
The "Industrial Internet" means that objects will be able to monitor their own use and determine when they are going to give out.

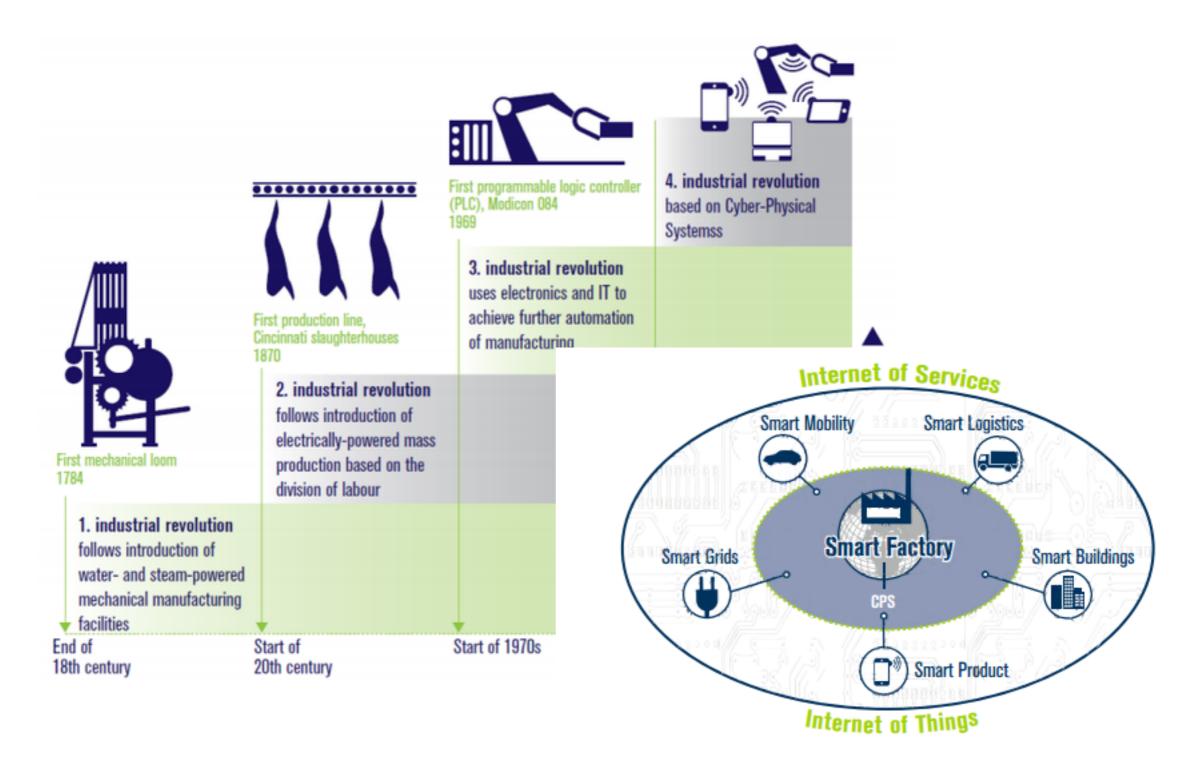
Everything from custom-fit clothing to custom shampoos and soaps will be at the consumer's disposal, without the added cost that has typically accompanied individually tailored designs in the past. Objects will increasingly be made just for you and in a very real way—it will no longer be about selecting one out of a handful of predetermined colors for your phone and calling it personalized.

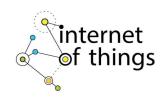






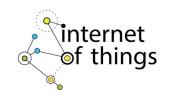








https://www.youtube.com/watch?v=HPRURtORnis



## Issues

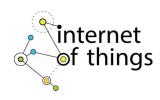
Security & Privacy — Too much data?

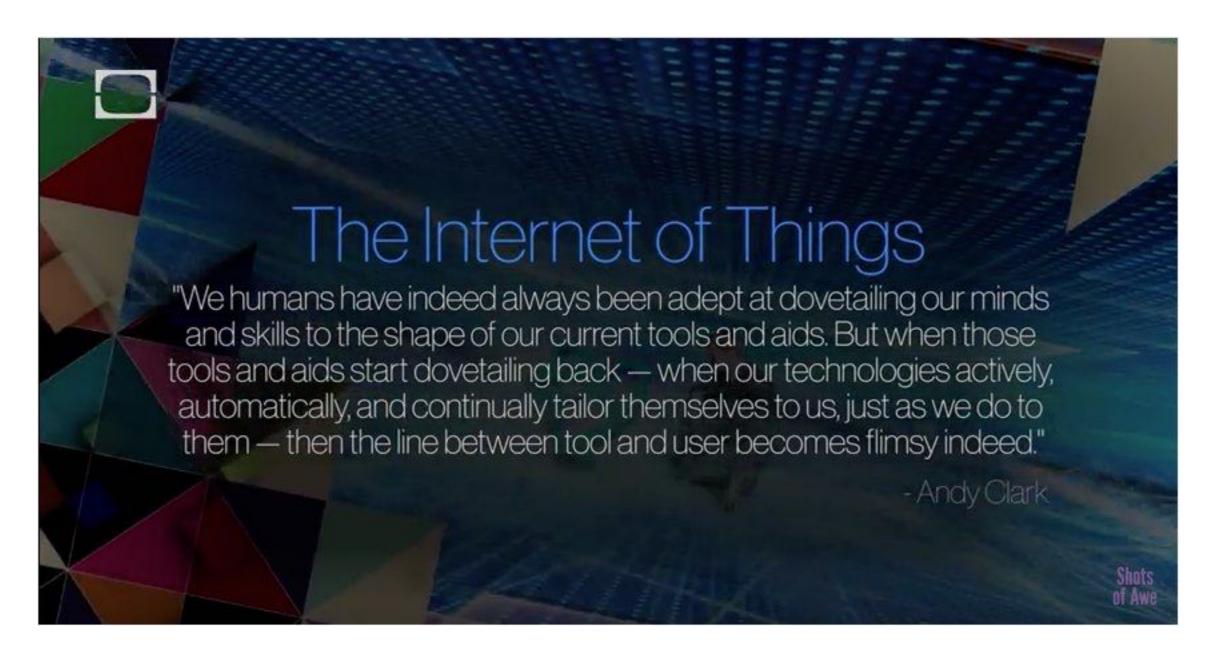
Where will the jobs go?

#### **Ethical Issues**

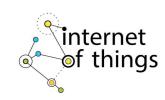
- Can we avoid IoT? Should we assume we are being monitored at all times?
- Is it the ultimate in utilitarian solution? (monitor things to help reduce risks to everyone)

What to do? Understand the agreement terms of devices





https://www.youtube.com/watch?v=wL34vK-On3o



?