

IOT Networking and Security

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IOT?

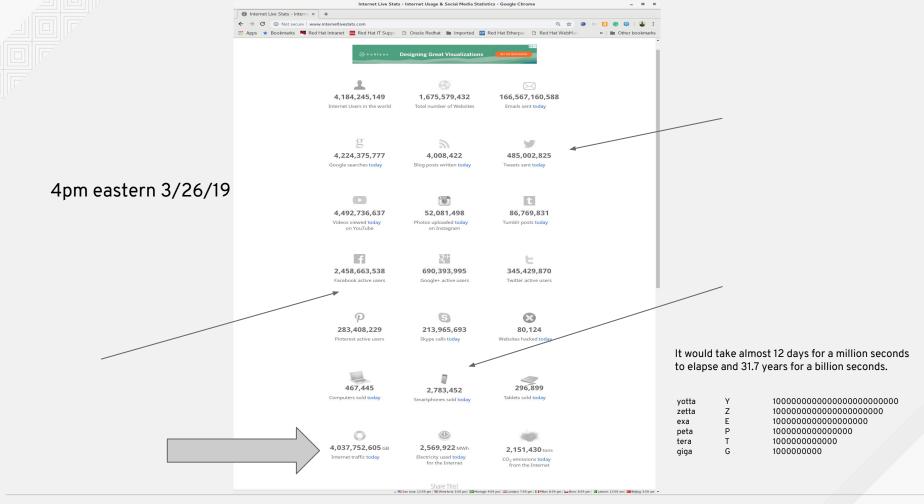


Talking about "I"

How many bytes of traffic on the internet today? Guess???

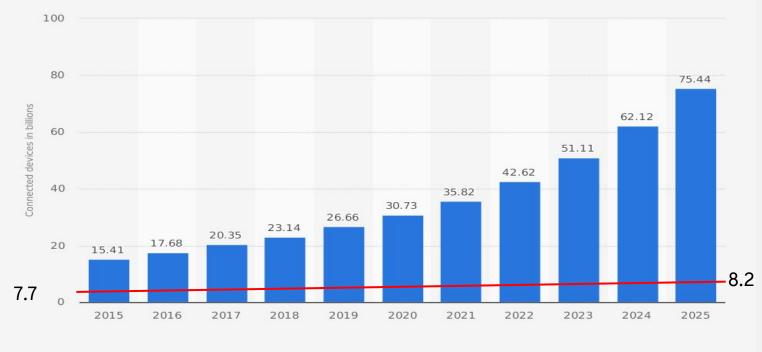
http://www.internetlivestats.com/







Internet of Things (IoT) connected devices installed base worldwide from 2015 to 2025 (in billions)



Source

IHS © Statista 2018 Additional Information: Worldwide; IHS; 2015 to 2016

http://www.worldometers.info/world-population/world-population-projections/



Average annual wages 2017 in US\$

Country DDD Naminal

Country	PPP	Nominal	
Switzerld	62,283	88,159	
Iceland	61,787	90,662	
USA	60,558	60,558	
Australia	49,126	61,620	
Ireland	47,653	53,112	
Canada	47,622	50,033	
UK	43,732	45,280	
Japan	40,863	38,234	
Italy	36,658	32,931	
South Kor	35,191	31,390	
Israel	35,067	42,378	
Slovenia	34,933	26,713	
Poland	27,046	13,431	
Greece	26,064	19,542	
Chile	25,879	18,645	
Czechia	25,372	15,374	
Portugal	25,367	19,210	
Estonia	24,336	17,039	
lovak Rep	24,	328 14,8	81
Lithuania	24,287	14,189	
Latvia	23,683	15,412	
Hungary	22,576	12,506	
Mexico	15,314	8,593	

China and India approx 1.3B people each, approx annual salary \$2000

8593/12=\$716

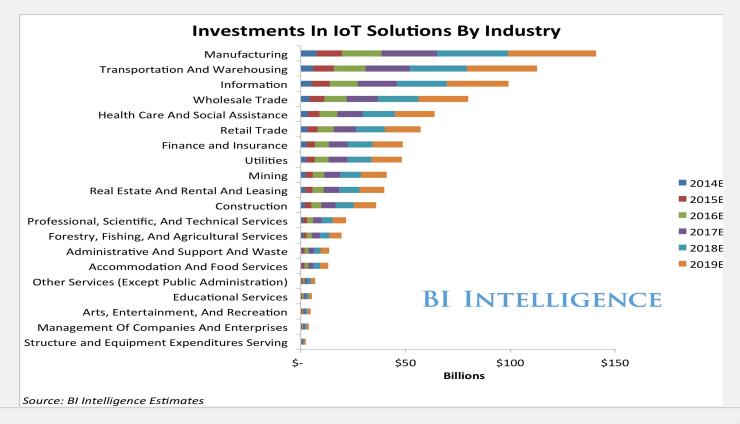


IOT devices

- Smart Phone
- Car (Tesla)
- Home Security (Cameras)
- **Thermostats**
- Traffic monitors
- Earthquake monitors
- Hospital BP apparatus locator



Which industrial sector making the most investment in IOT devices?





What basic technologies made this possible?

What are the basic ingredients of IOT devices?

What were the non-IOT advancements that made IOT devices proliferate exponentially?

IBM introduced the first hard disk drive to break the 1 GB barrier in 1980. It was called the IBM 3380 and could store 2.52 GB. Its cabinet was about the size of a refrigerator and the whole thing weighed in at 550 pounds (250 kg).







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