Assignment

Internet Of Things

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Submitted to,

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Qn : IOT based Applications of FOG computing.

> Smart grid.

Smart grid is the next generation electric power distribution network. Smart grids contain transmission lines, substations, transformer and so forth. It utilizes bidirectional streams of power and data to create an automated and distributed strengthen energy distribution network. Smart grid gives an obvious energy distribution where service providers and customer can monitor and control their pricing, production and consumption in real time. In big data environment   millions of smart meters are fixed in the consumer home. At the edge process, fog   collector are used to collect, process and filter information locally and for long   storage information can be send to cloud data center.

➢ Telehealth

Telehealth, or Telemedicine, hasn't completely flourished yet. Nonetheless, it has great future potential. IoT Examples of Telemedicine include the digital communication of Medical Imaging, Remote   Medical Diagnosis & Evaluations, Video Consultations with Specialists, etc.

➢ Wearables

Wearables remain a hot topic in the market, even today. These devices serve a wide range of purposes ranging from medical, wellness to fitness. Of all the IoT startups, Jawbone, a wearables maker, is second to none in terms of funding.

➢ Smart Farming

Farming is one sector that will benefit the most from the Internet of Things. With so many developments happening on tools farmers can use for agriculture, the future is sure promising. Tools are being developed for Drip Irrigation, understanding crop patterns, Water Distribution, drones for Farm Surveillance, and more. These will allow farmers to come up with a more productive yield and take care of the concerns better.
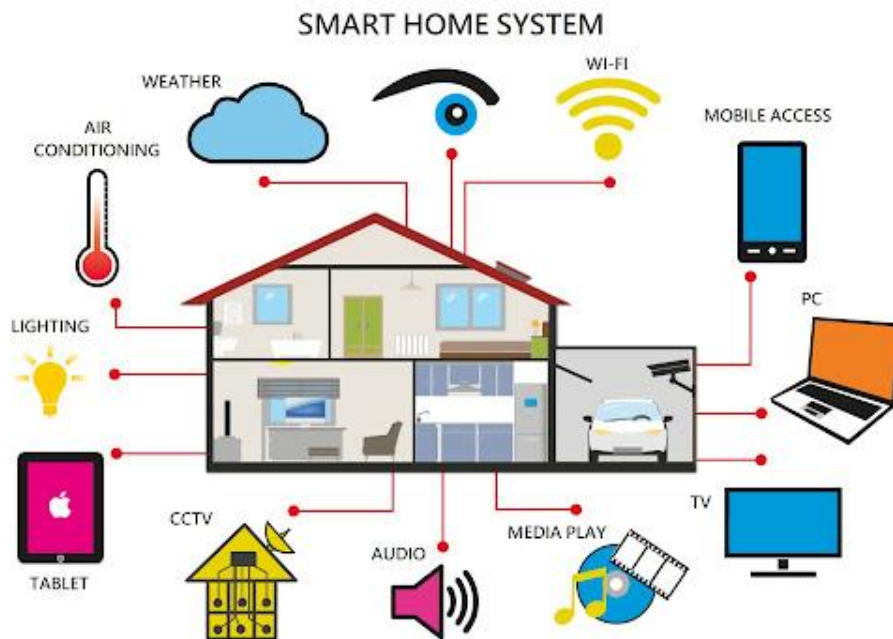
➢ Connected Cars

   Any vehicle/car which can connect to the internet is called a Connected Car. Usually, such vehicles connect to the internet via WLAN (Wireless Local Area Network). A connected vehicle can also share the internet with devices inside and outside the car, and at the same time can also share data with any external device/services. Connected vehicles can always access the internet to perform functions/download data when requested by the user.
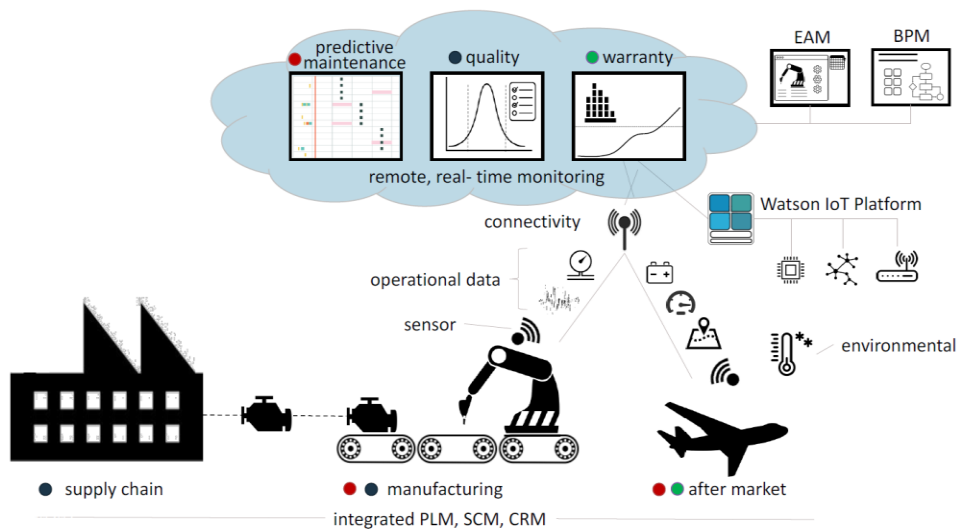
➢ Smart Home

A smart home means your home has a smart home system that connects with your appliances to automate specific tasks and is typically remotely controlled. You can use a smart home system to program your sprinklers, set and monitor your home security system and cameras, or control appliances like your refrigerator or air conditioning and heating. At Constellation we love how energy-efficient smart homes are, because they save you precious time and money while also conserving energy,

SMART HOME SYSTEM

➢ Smart Supply Chain

The aim of the smart supply chain technologies is to increase efficiency in the supply management processes, to balance the company's market stocks, to provide material cost regulation and reduction, and to keep quality high in order to provide the services that customers demand.

➢ Smart Retail

Smart retail refers to the hybridization between traditional shopping methods and modern "smart" technologies. Through the Internet of Things, data is accumulated by way of communication between implanted devices and computers. As a result, consumers may enjoy a more personalized, faster, and smarter experience. This can manifest as individualized coupons and smartly curated inventories.