





IoT Tutorial (Internet of Things)



Features



Advantages















증기기관

18세기

(0000) 2차산업혁명

3차산업혁명

전기·내연기관

19-20세기

컴퓨터·인터넷 20세기 후반



3D 프린팅

AR/VR

AI 기술을 핵심동인으로 상품·서비스의 생산·유통·소비 전 과정에서 모든 것이 연결되고 지능화

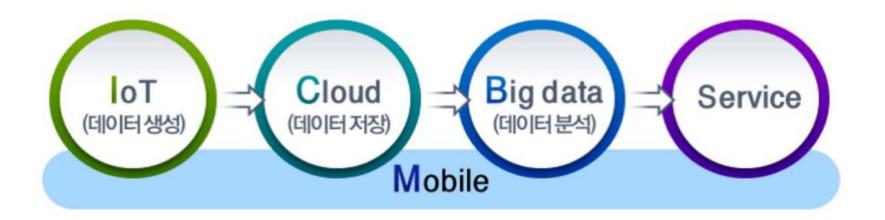
IoT (cf. IoE, IoST, WoT,...)



IoT Overview

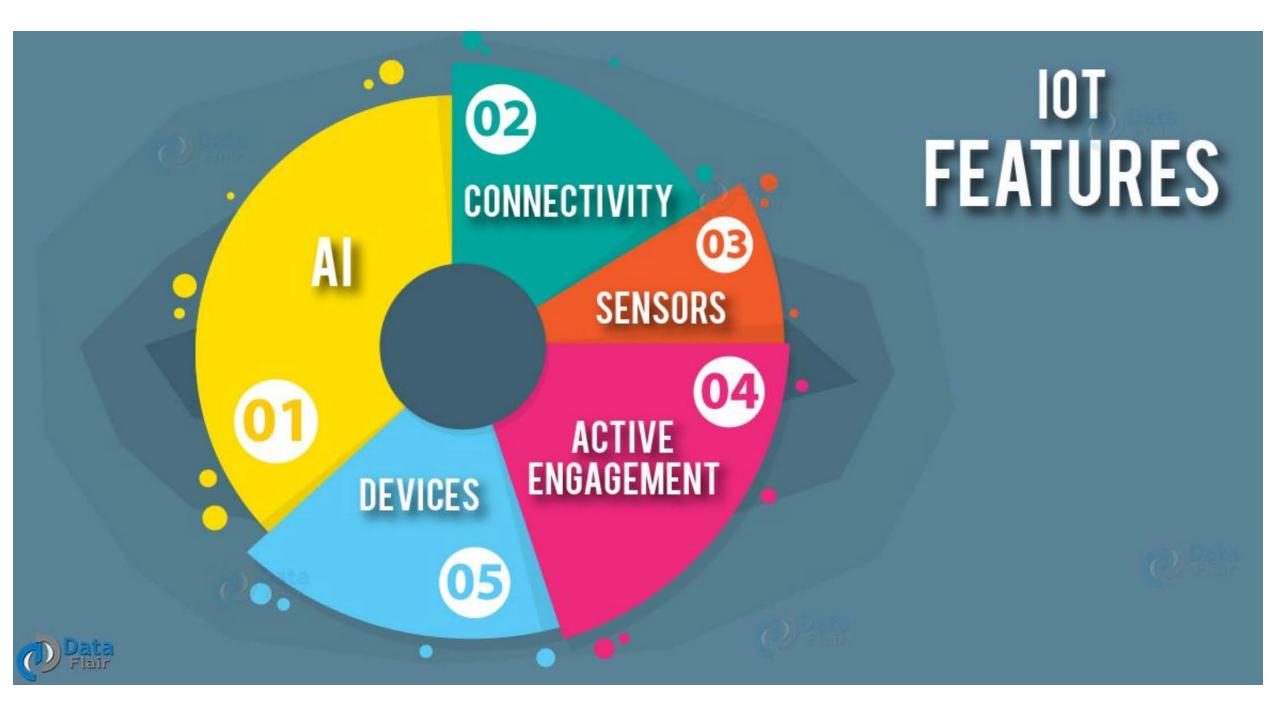
사물인터넷(Internet of Things, IoT)은 사람, 사물, 공간, 데이터 등 모든 것이 인터넷으로 서로 연결되어, 정보가 생성·수집·공유·활용되는 초연결 인터넷

> 모바일 기반에서 IoT, 클라우드(Cloud), 빅데이터(Bigdata)가 연계된 새로운 가치와 서비스 창출

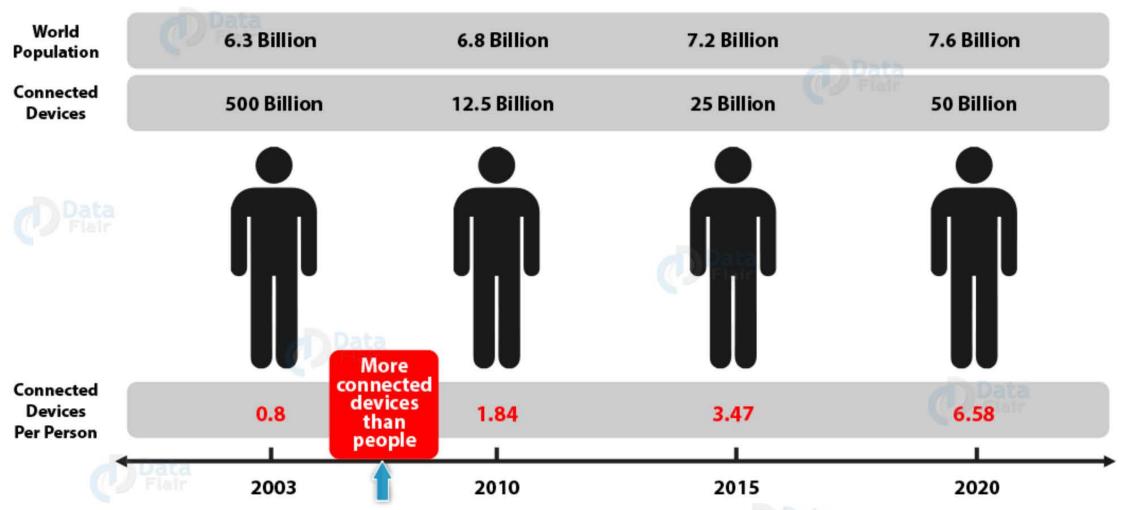


IoT Overview





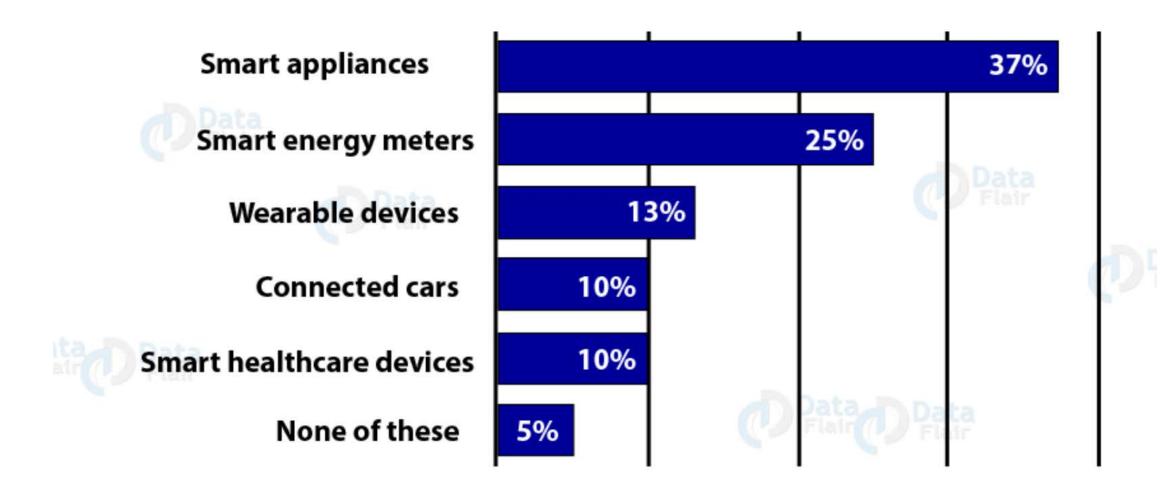
Current Status & Future Prospect of IoT



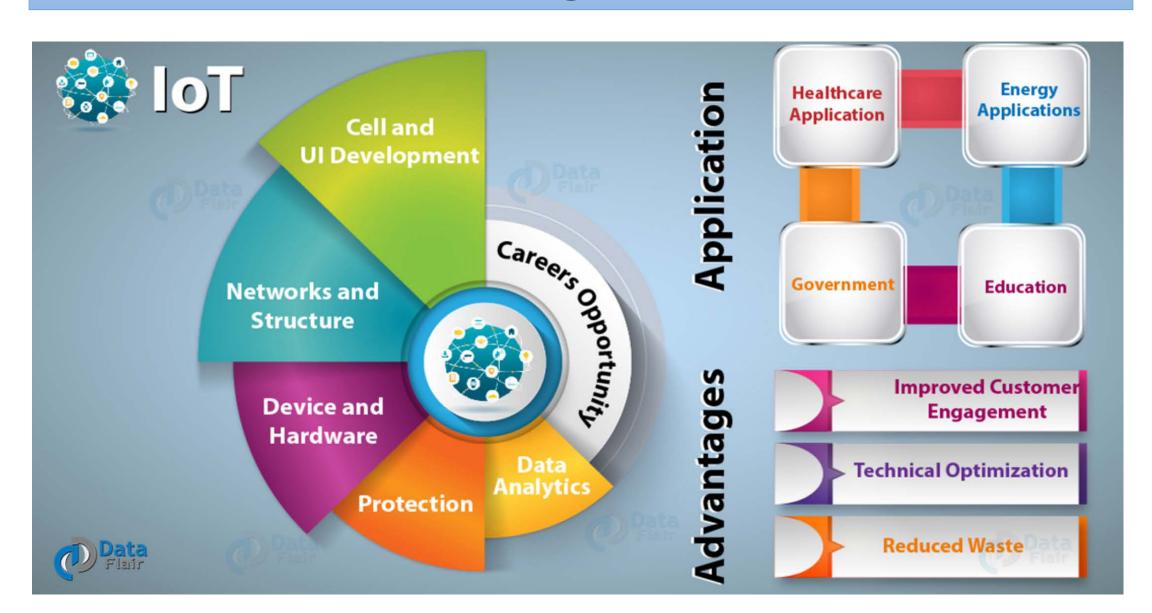


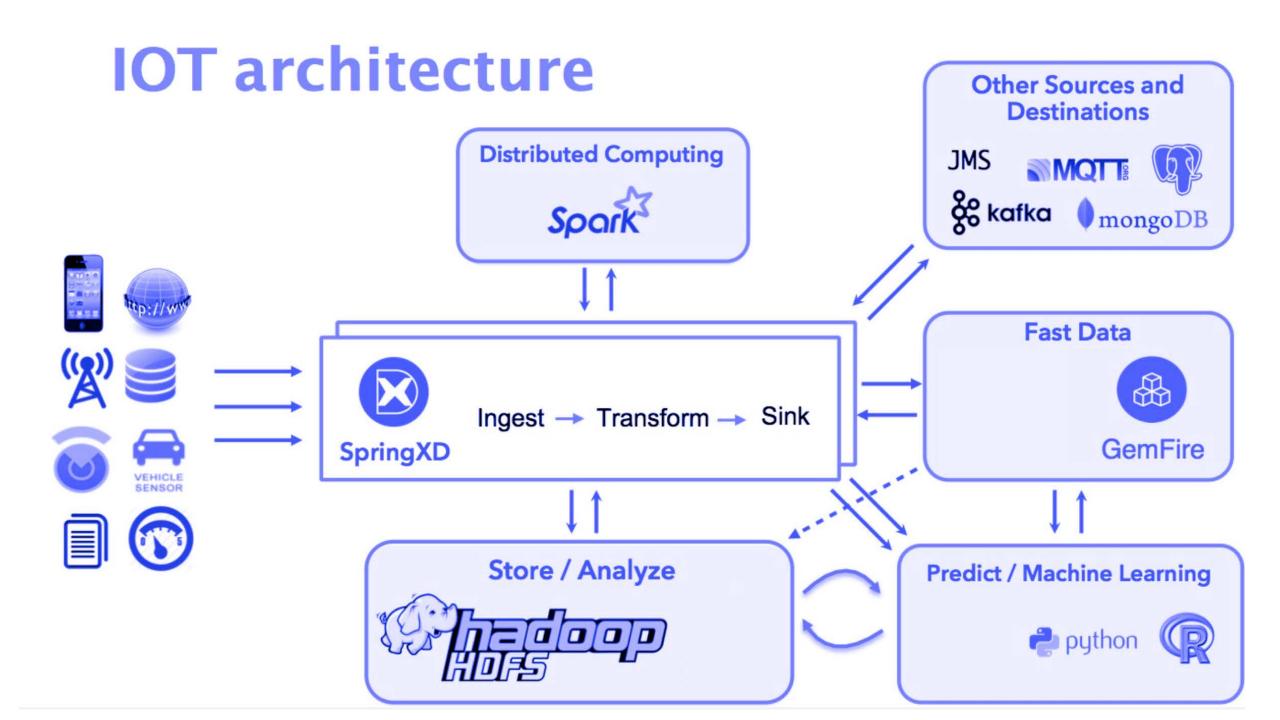
"change is the only thing permanent in this world"

IoT Applications



Advantages of IoT

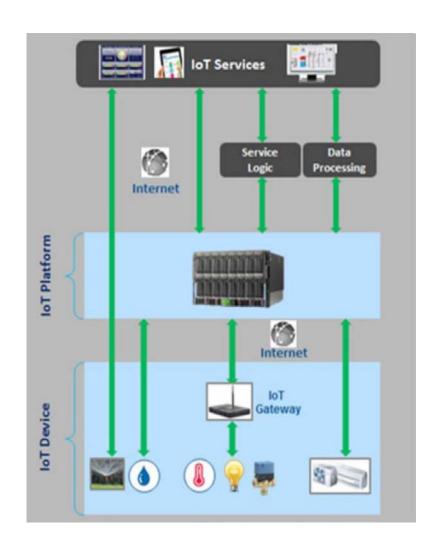


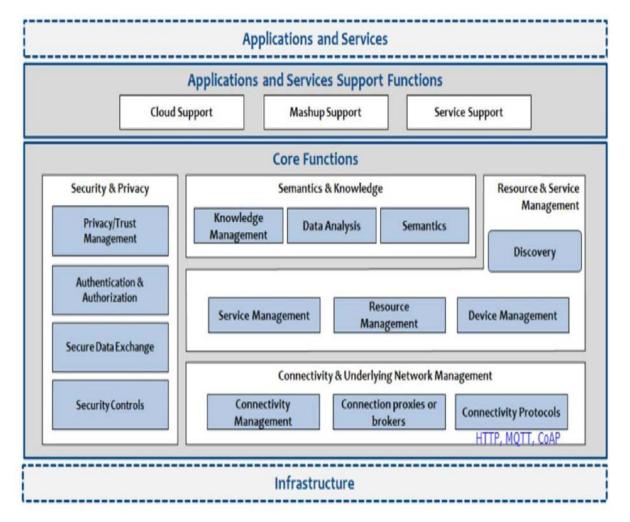


IoT Service Architecture

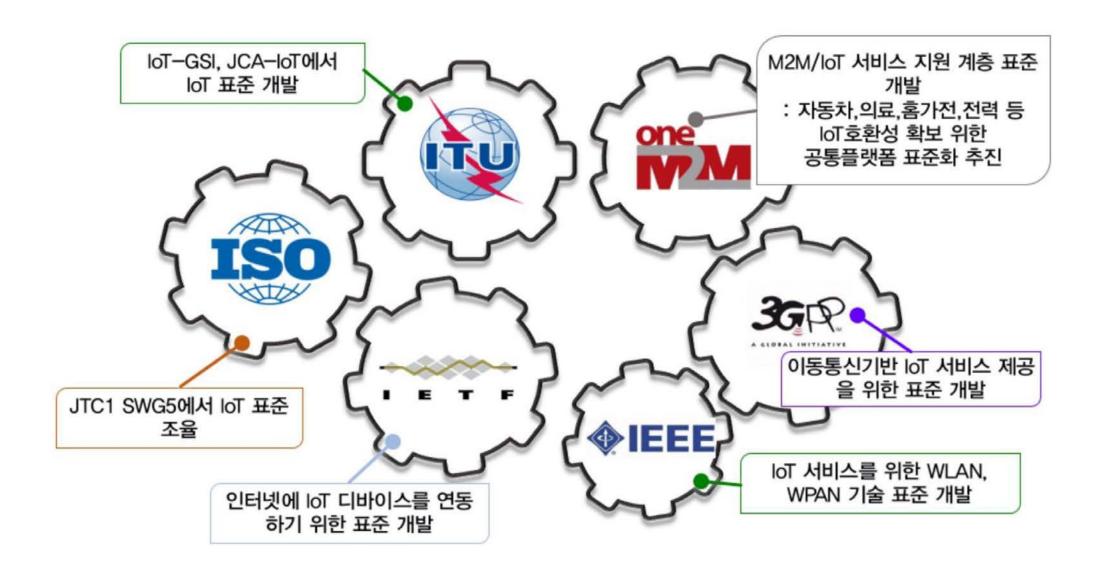


IoT Platform

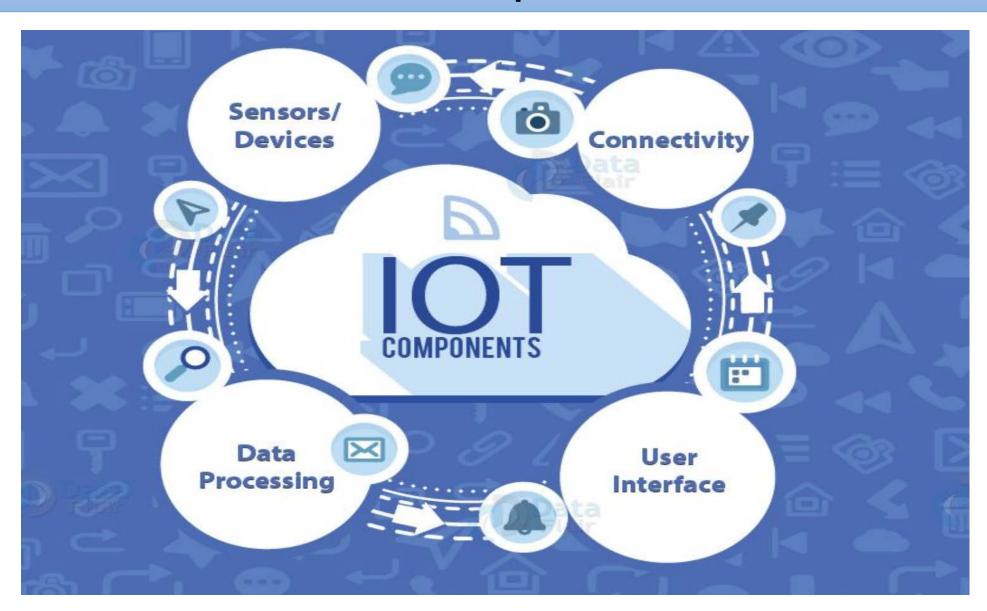




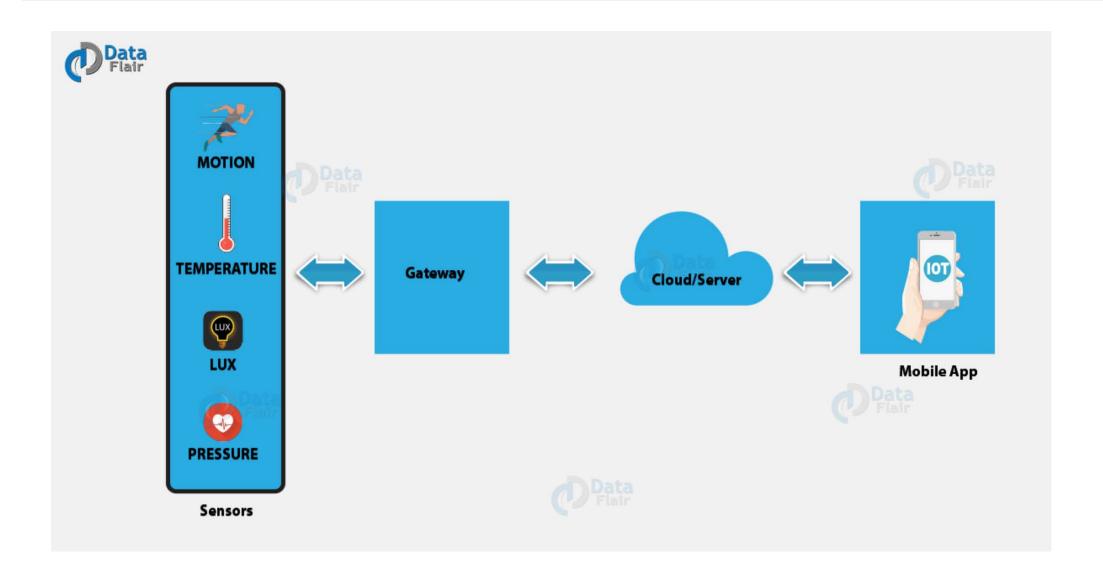
IoT Standards



IoT Components

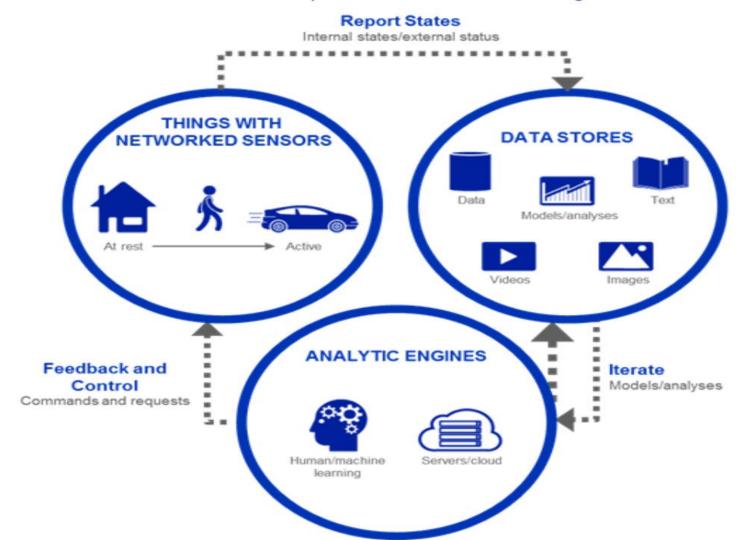


How IoT works?

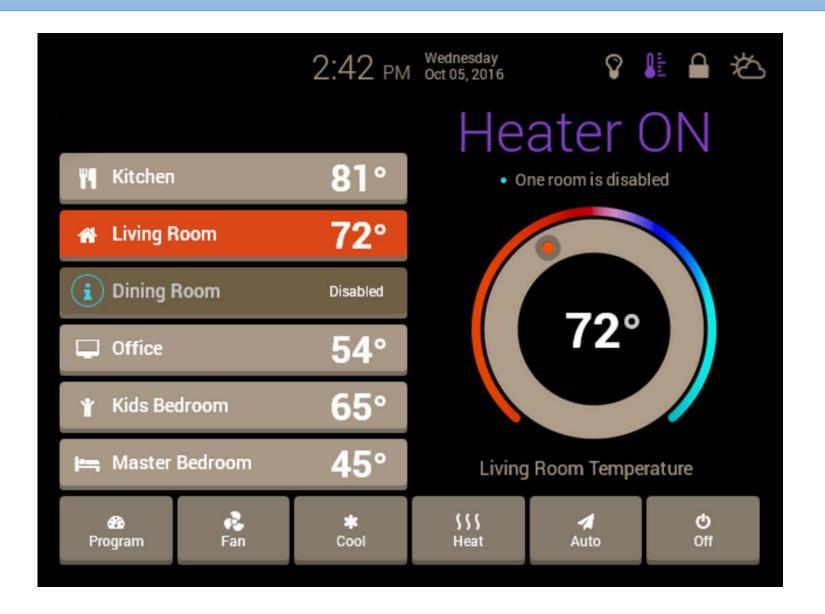


Data Processing

Interaction Between the Three Components of the Internet of Things

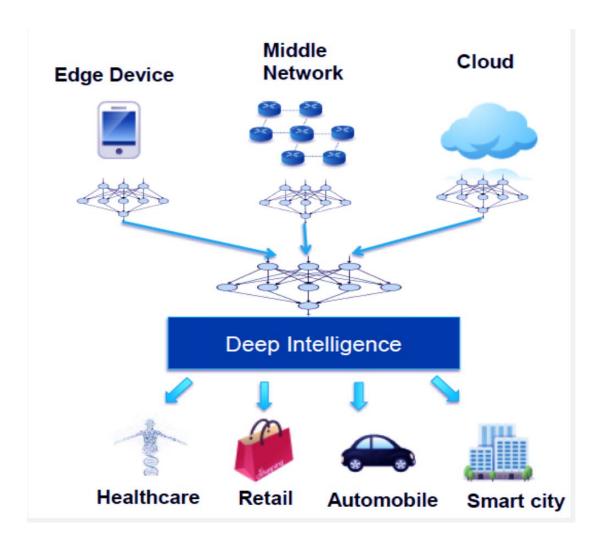


User Interfaces

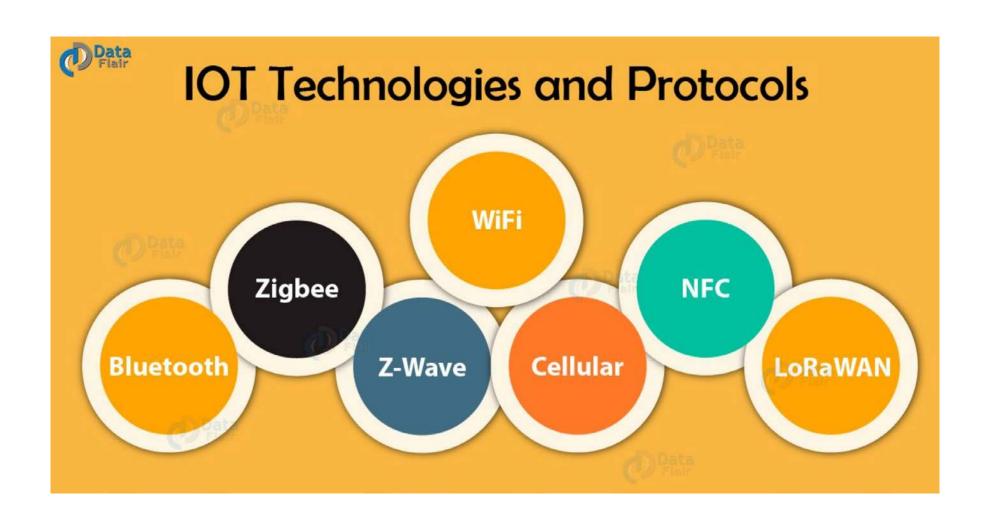


IoT with Big Data & Al

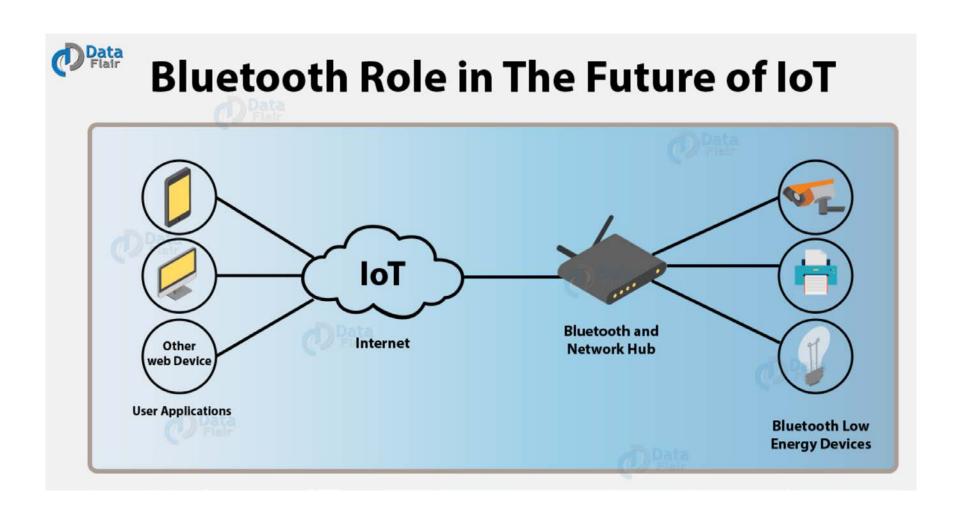




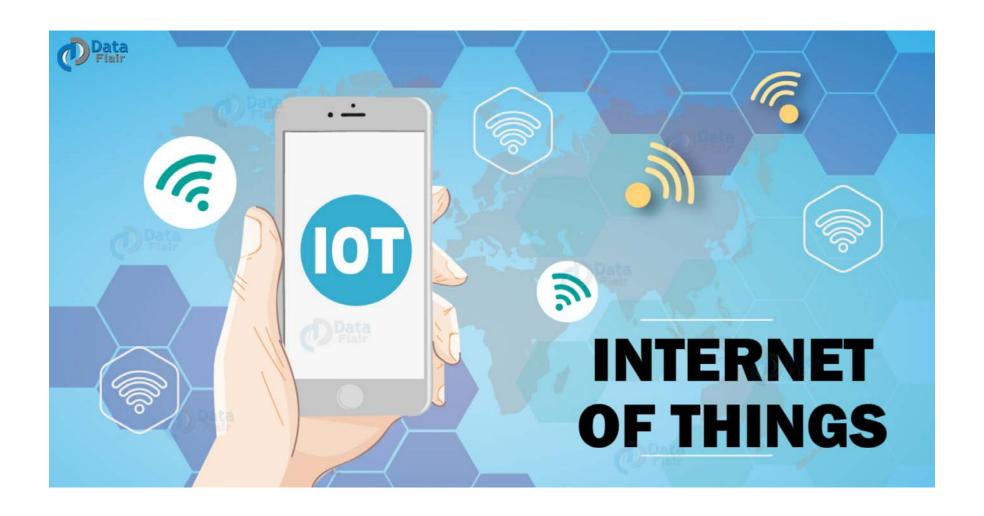
Access Technologies



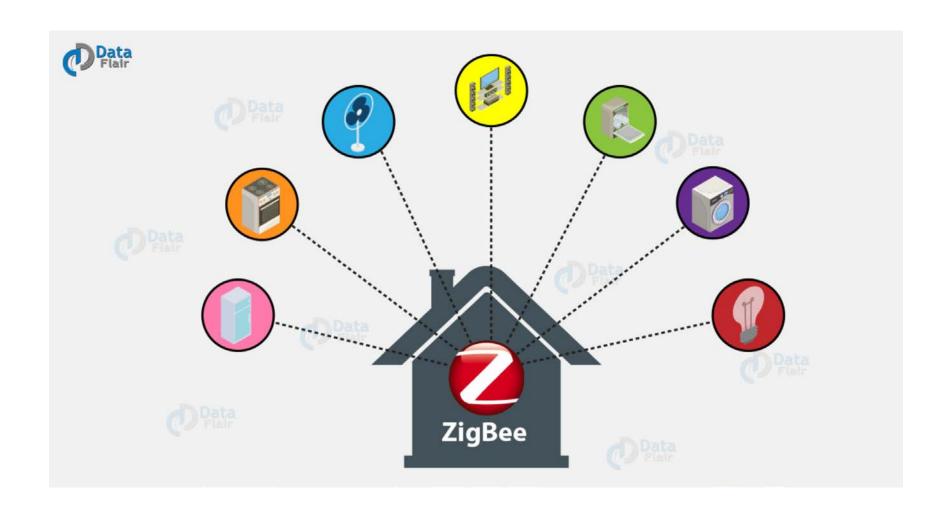
Bluetooth



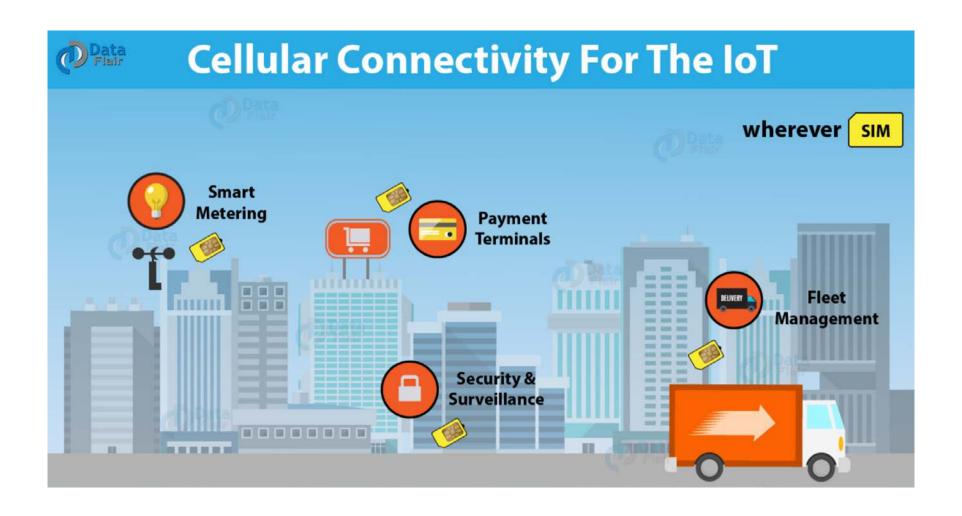
Wi-Fi



ZigBee

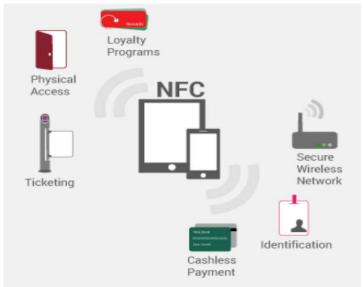


Cellular



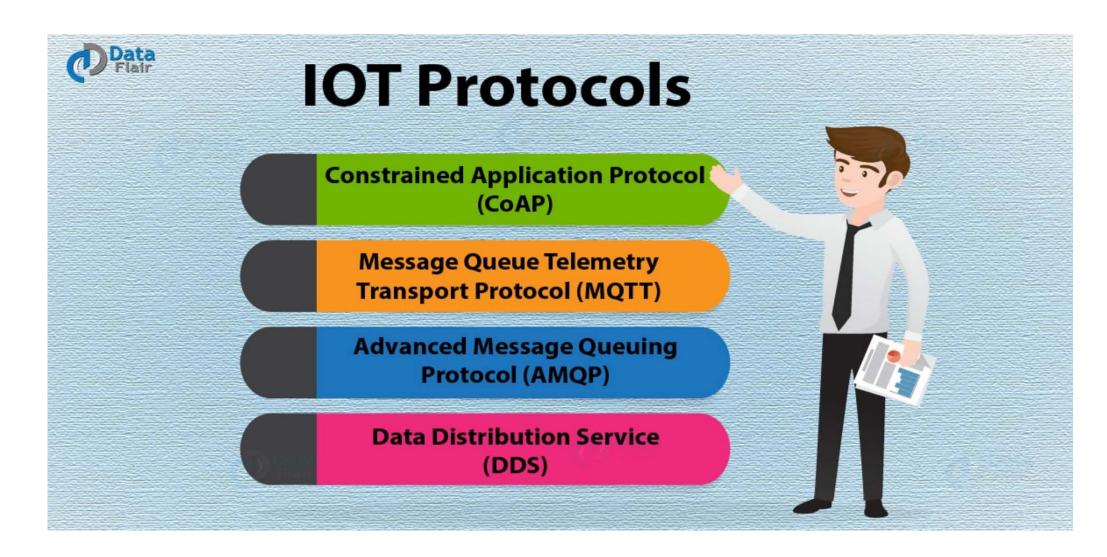
Z-Wave/NFC/LoRaWAN



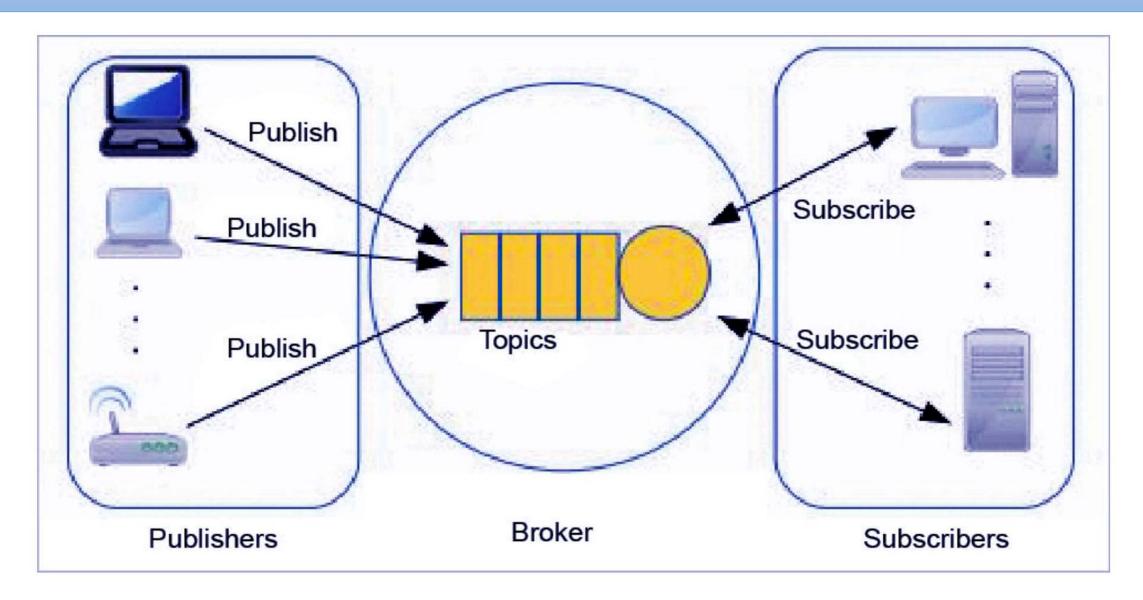




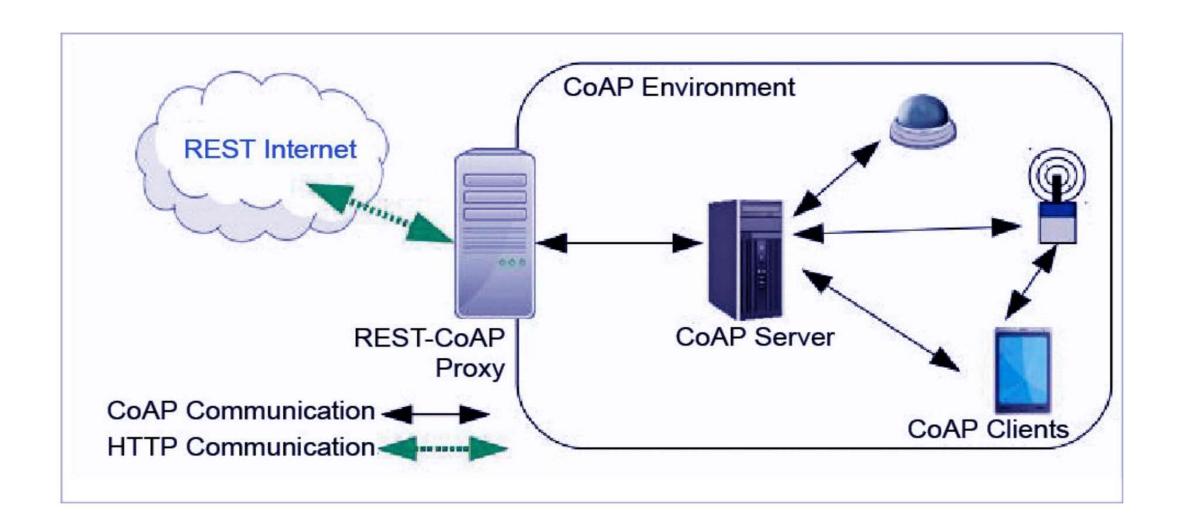
Messaging Protocols



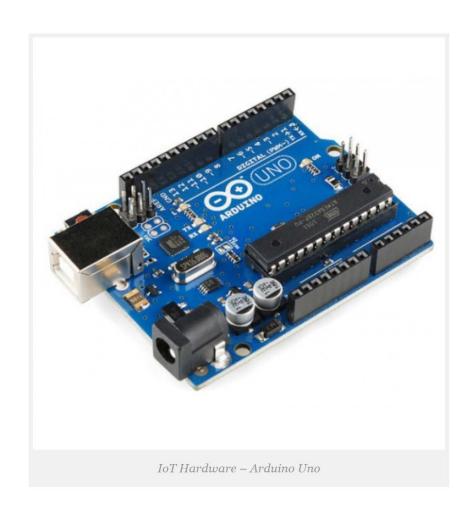
Message Queue Telemetry Transport (MQTT)



Constrained Application Protocol (CoAP)

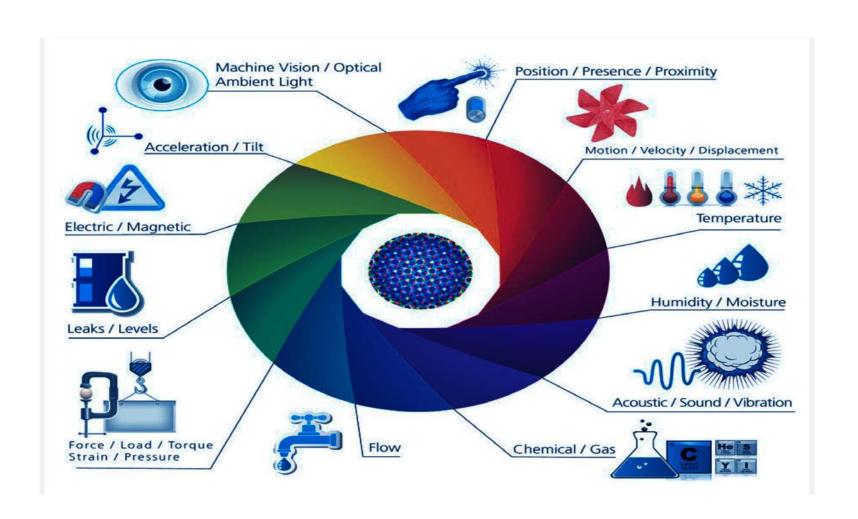


IoT Hardware





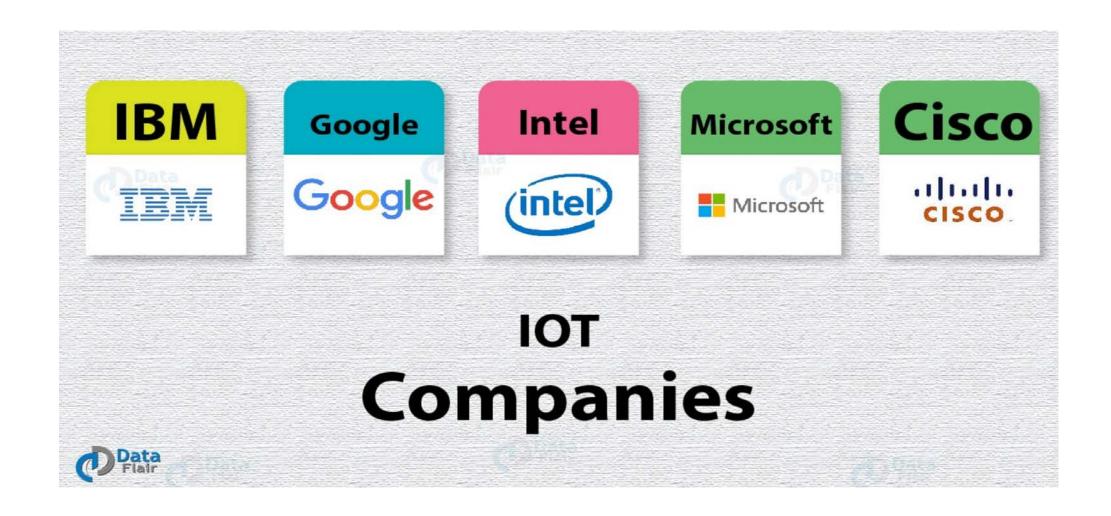
IoT Sensors



IoT Wearable Devices

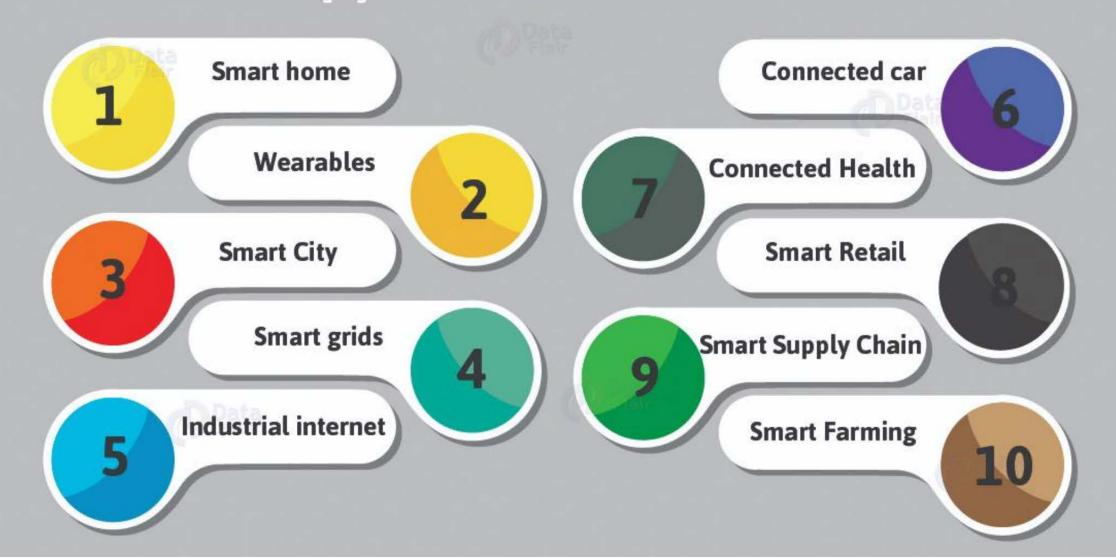


IoT Companies





IOT Applications and Usecases



Smart Home



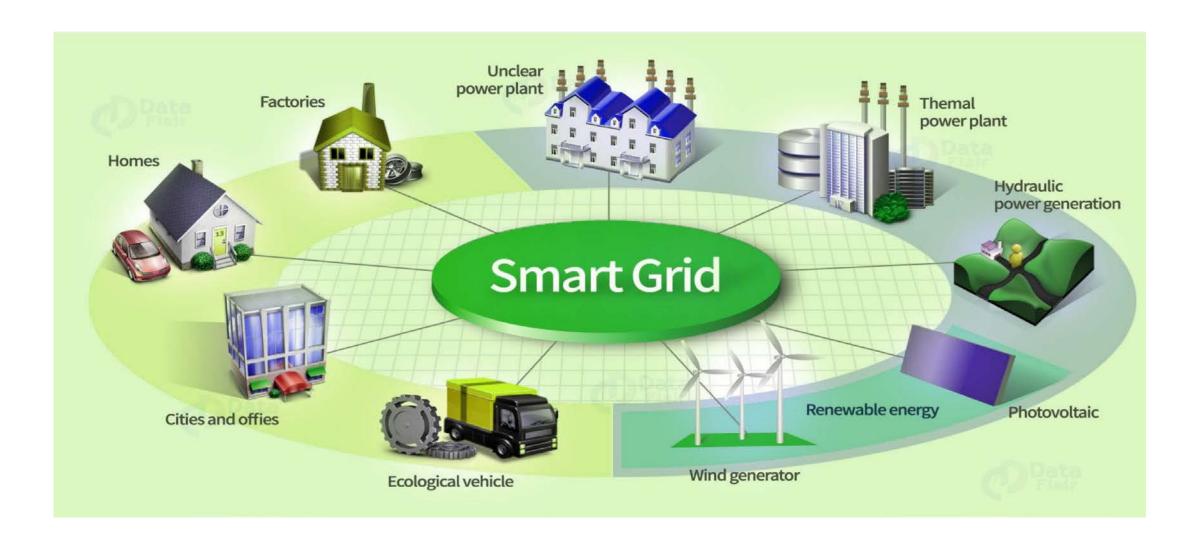
Smart Home (SKT)



Smart City



Smart Grid



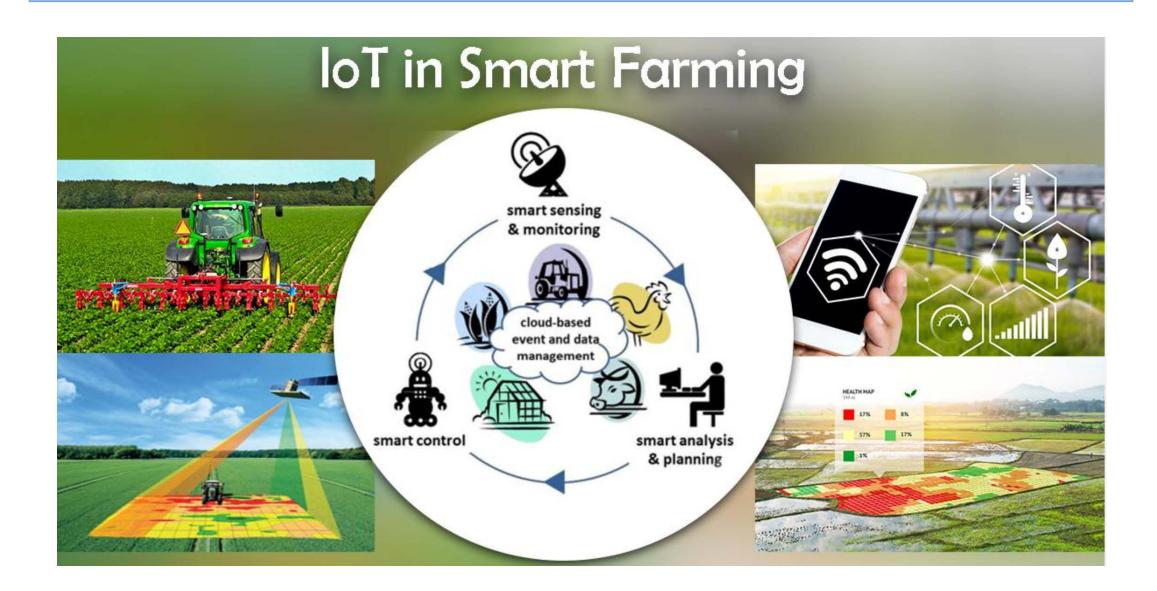
Connected Car



Healthcare



Smart Farm



Thanks for your attention!

Q & A