



LORA VIRTUAL ACADEMY

WHAT IS THE LORA NETWORK

[TECHEQUATION.ORG](https://techequation.org)



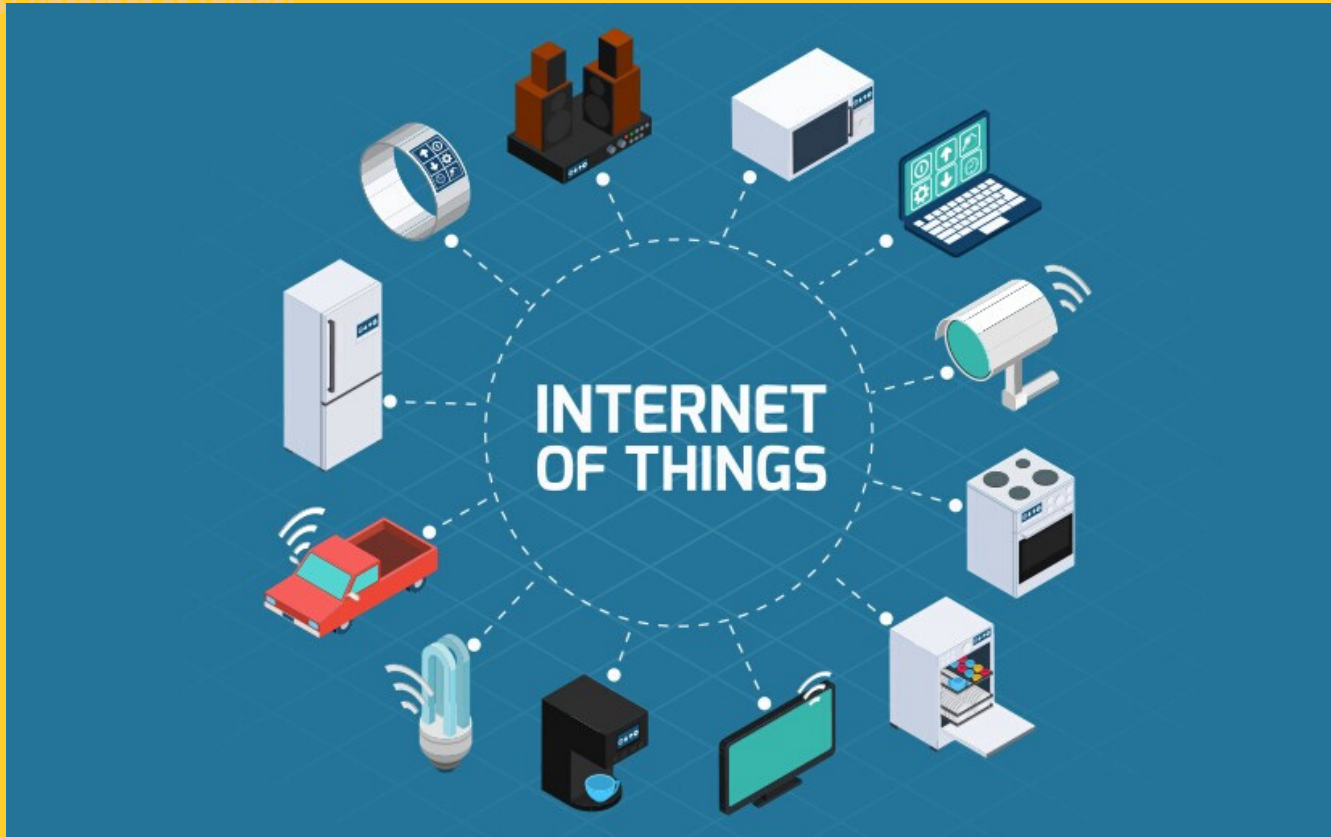
OVERVIEW

In this lesson you will learn about LoRa a low power long range wide area network protocol. Don't be intimidated if you don't know the meaning of some words or concepts. In this lesson all terminology will be defined.



IOT (INTERNET OF THINGS)

IoT (Internet of Things)



IOT (INTERNET OF THINGS)

All the things that are connected to the internet. Things refers to devices that are able to connect to the internet and have sensors that transmit data.

CREATING A NETWORK

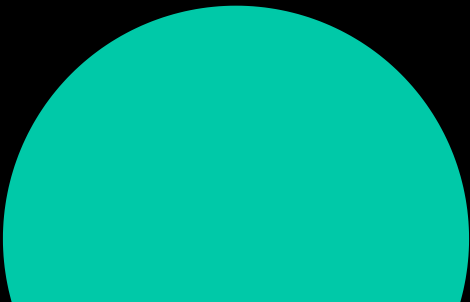
A network consists of two or more devices that can communicate with each other.

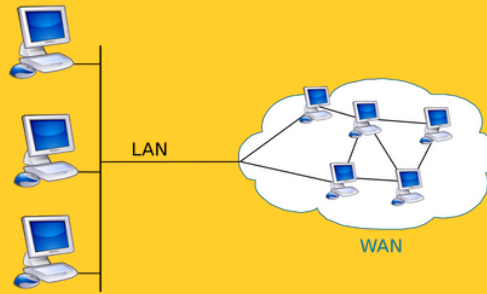




PROTOCOL

A network protocol is a set of rules, guidelines, and formats that make communication between devices possible.





WIDE AREA NETWORK (WAN)

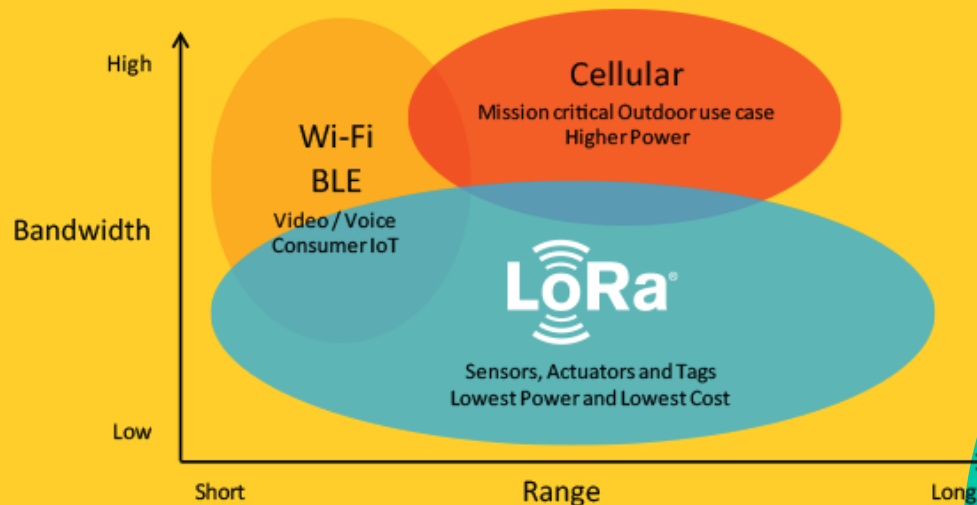
A WAN is not restricted to a geographic location. The internet is a worldwide public WAN. The further the distance the lower the network bcomes.

LORA (LONG RANGE)

The physical layer or the (wireless) modulation which creates the long range communication link

LORAWAN (LONG RANGE WIDE AREA NETWORK)

A communication protocol and system architecture for the network



WHAT LORA IS USED FOR

Fire Detection

Fleet Management

Agriculture

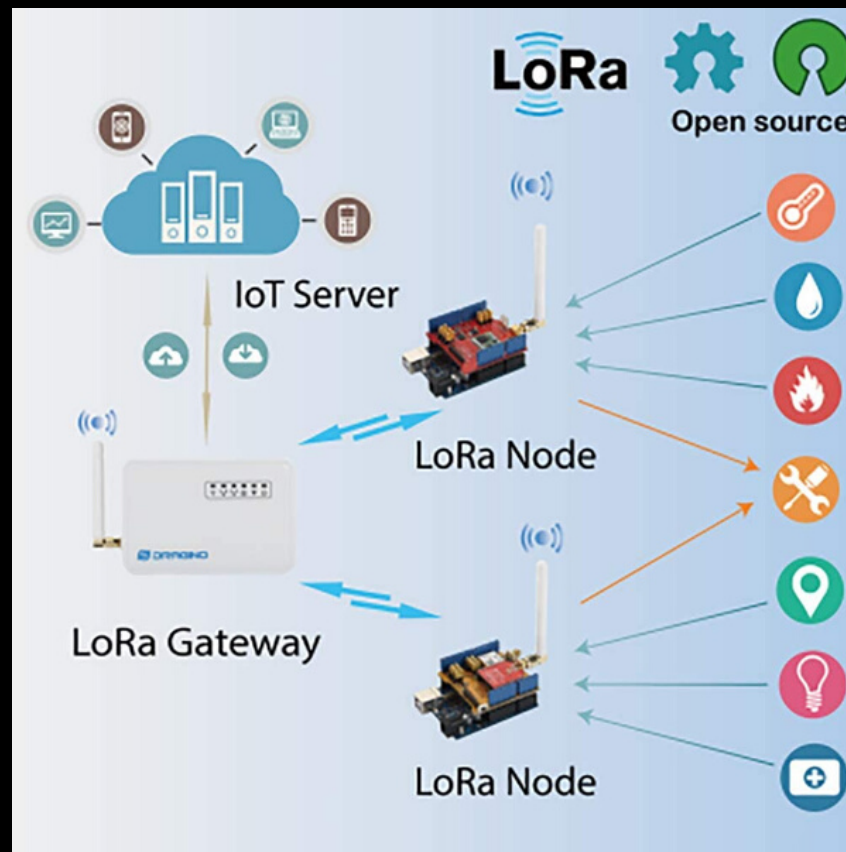
Air Pollution Monitoring

So much more



PUTTING IT ALL TOGETHER

Each node can collect different kinds of data using sensors. A LoRa Node can transmit data to the LoRa gateway and the gateway stores that data on an IoT server.



THANK YOU!

Welcome to LoRa academy, make sure to contact your instructors for any questions.

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