

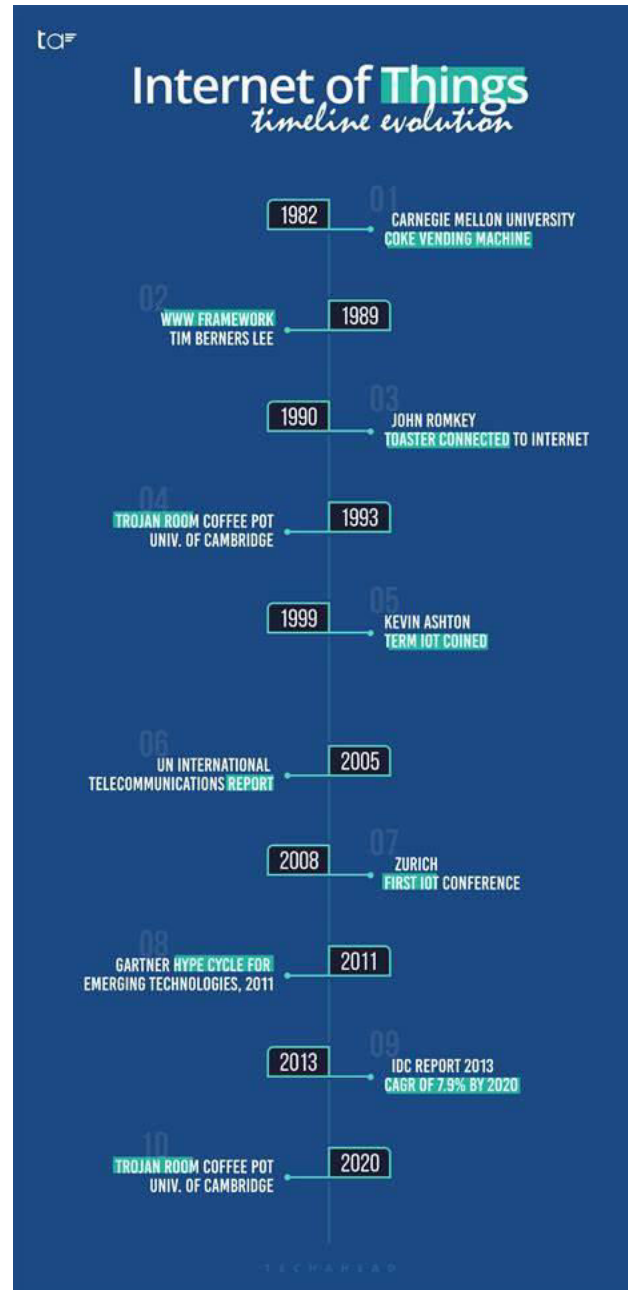
Internet of Things (IoT)

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What is IoT?

History of iot

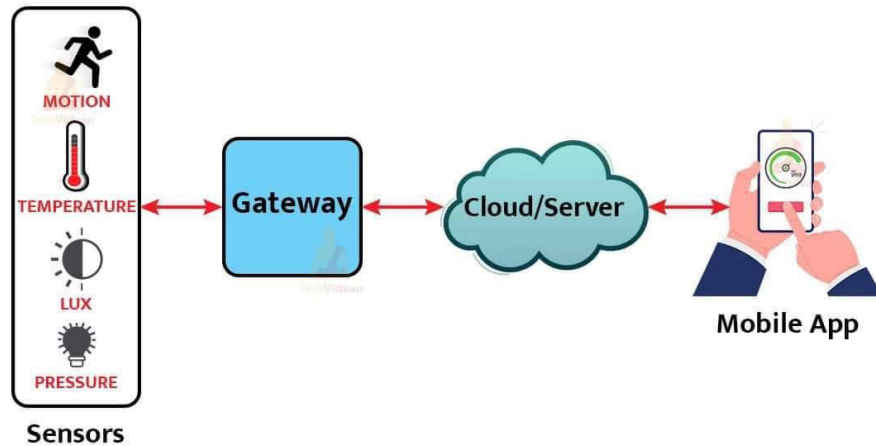


Why should You Care about IoT?

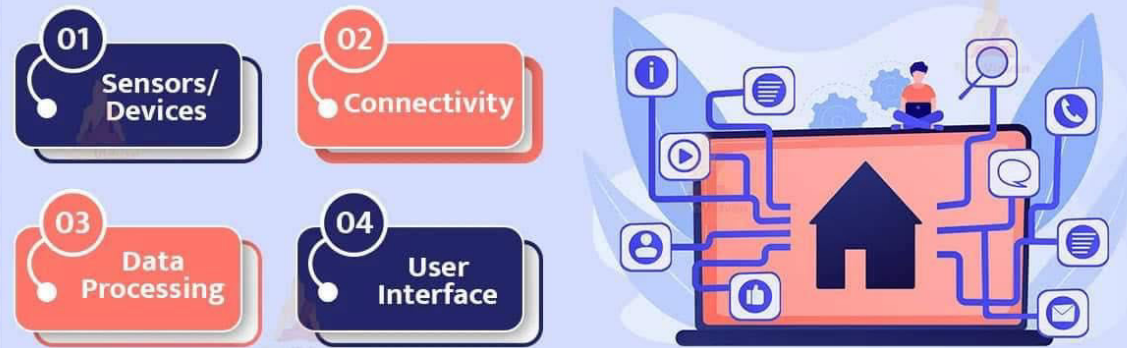
- <https://www.hiotron.com/care-iot/>
- <https://www.arenasolutions.com/white-papers/iot-innovation/care-about-iot/>

How IoT Works?

Working of IoT



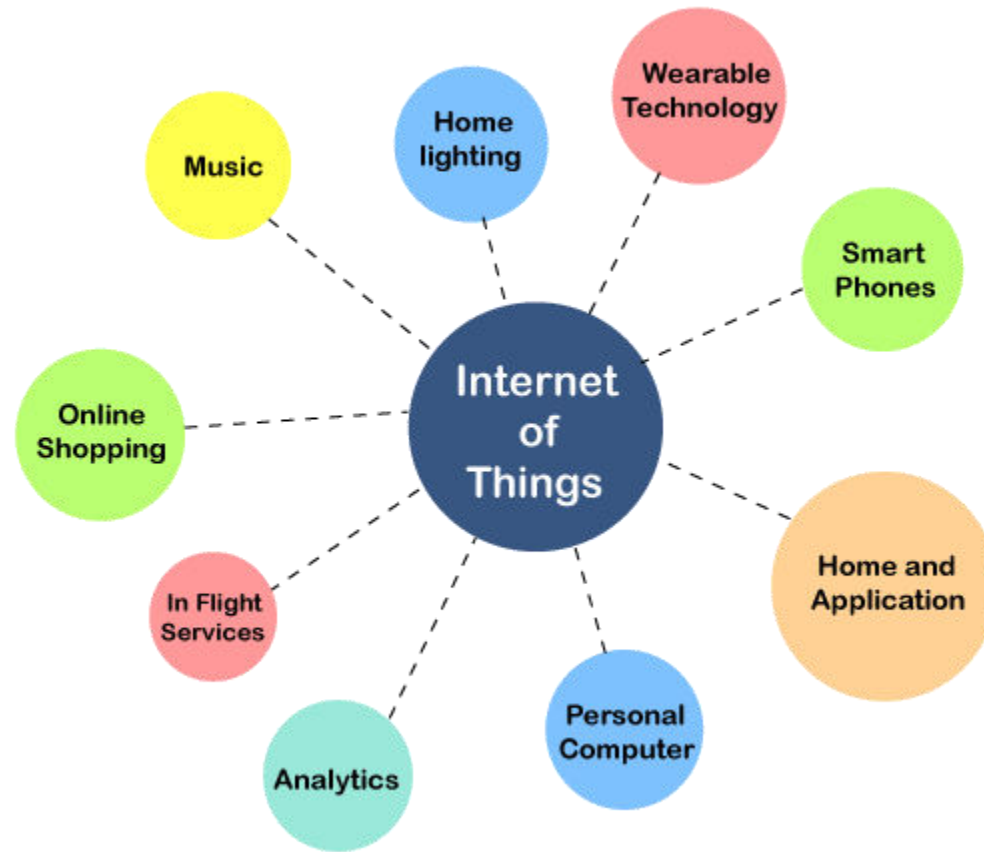
Components of IoT



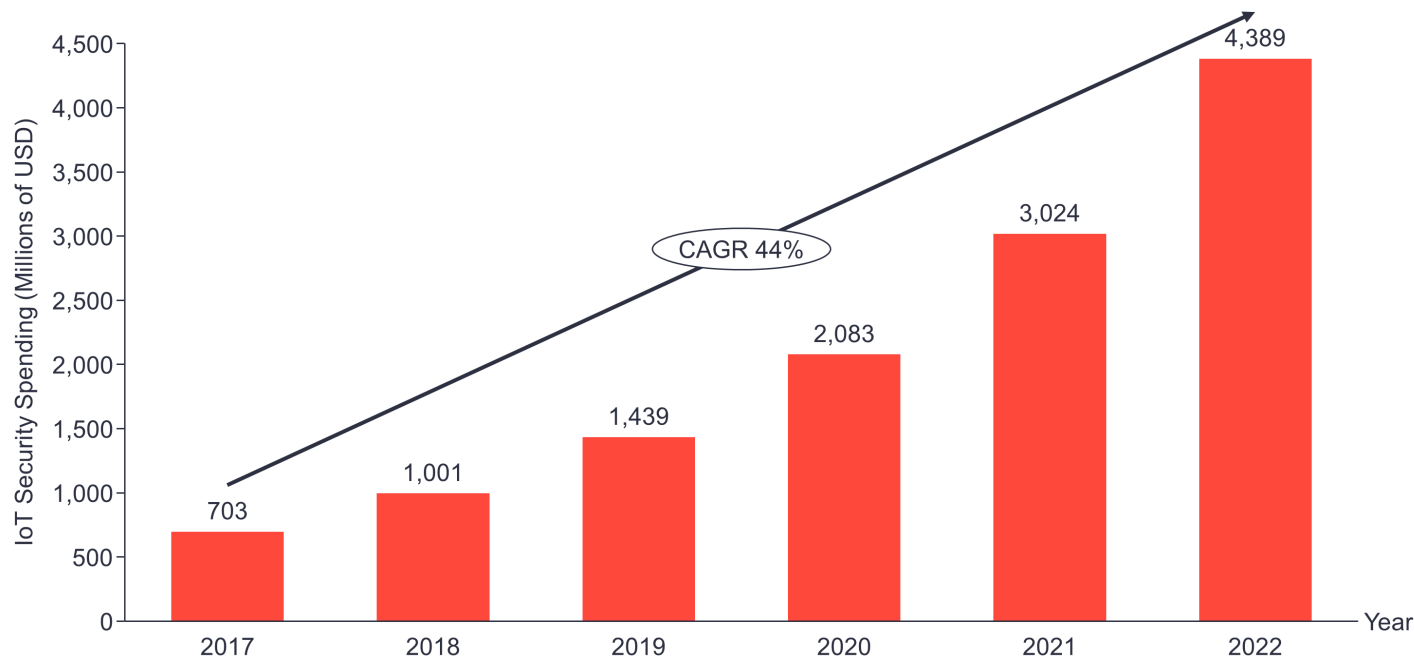
What Technologies have Made IoT Possible?

- Juthi
- **Access to low-cost, low-power sensor technology.** Affordable and reliable sensors are making IoT technology possible for more manufacturers.
- **Connectivity.** A host of network protocols for the internet has made it easy to connect sensors to the cloud and to other “things” for efficient data transfer.
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Applications of IoT(juthi)

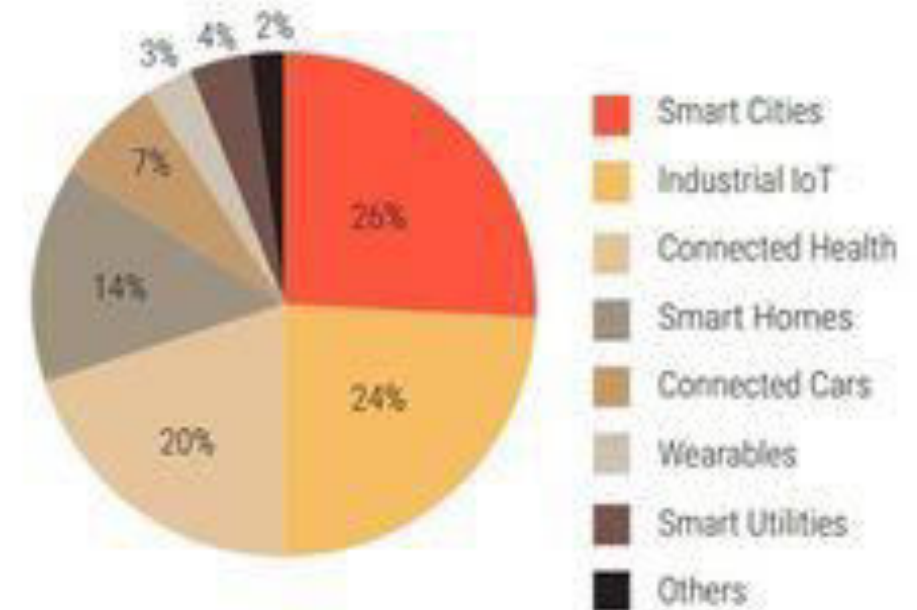


Market Growth and Shares by Segments (juthi)



[Sources: GrowthEnabler Analysis/MarketsandMarkets]

Global IoT Market Share by Sub-Sector



[Source: GrowthEnabler Analysis]

Challenges in World Of IoT

- **Scalability:**
Billions of internet-enabled devices get connected in a huge network, large volumes of data are needed to be processed. The system that stores, analyses the data from these IoT devices needs to be scalable. In present, the era of IoT evolution everyday objects are connected with each other via Internet. The raw data obtained from these devices need big data analytics and cloud storage for interpretation of useful data.
- **Interoperability:**
Technological standards in most areas are still fragmented. These technologies need to be converged. Which would help us in establishing a common framework and the standard for the IoT devices. As the standardization process is still lacking, interoperability of IoT with legacy devices should be considered critical. This lack of interoperability is preventing us to move towards the vision of truly connected everyday interoperable smart objects.
- **Safety Of Patients:**
Most Of IoT devices are left unattended, as they are connected with real-world objects. If used on patients as wearable devices, any technical error in security can be life-threatening for patient.
- **Security And Personal Privacy:**
There has been no research in security vulnerabilities and its improvements. It should ensure Confidentiality, Integrity and Availability of personal data of patient.
- **Design Based Challenge:**
With the development in technology design challenges are increasing at a faster rate. There have been issues regarding design like limited computation power, limited energy and limited memory which need to be solved.

IoT risks and challenges



Security



Integration



Flexibility



Lack of C-level
support

Advantages and Limitations of IoT?

Securing iot devices

