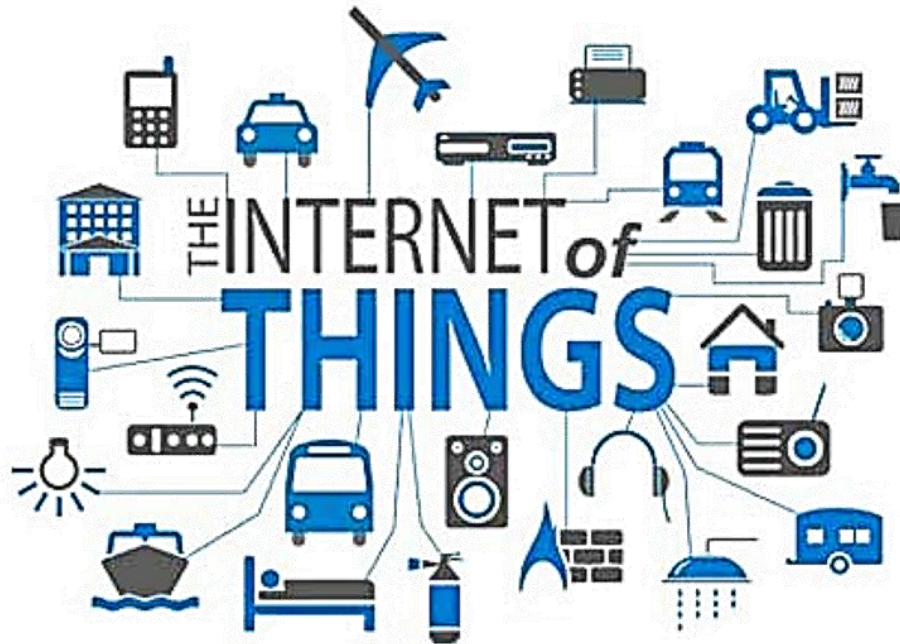


# Introduction to IOT



# Advantages of IoT

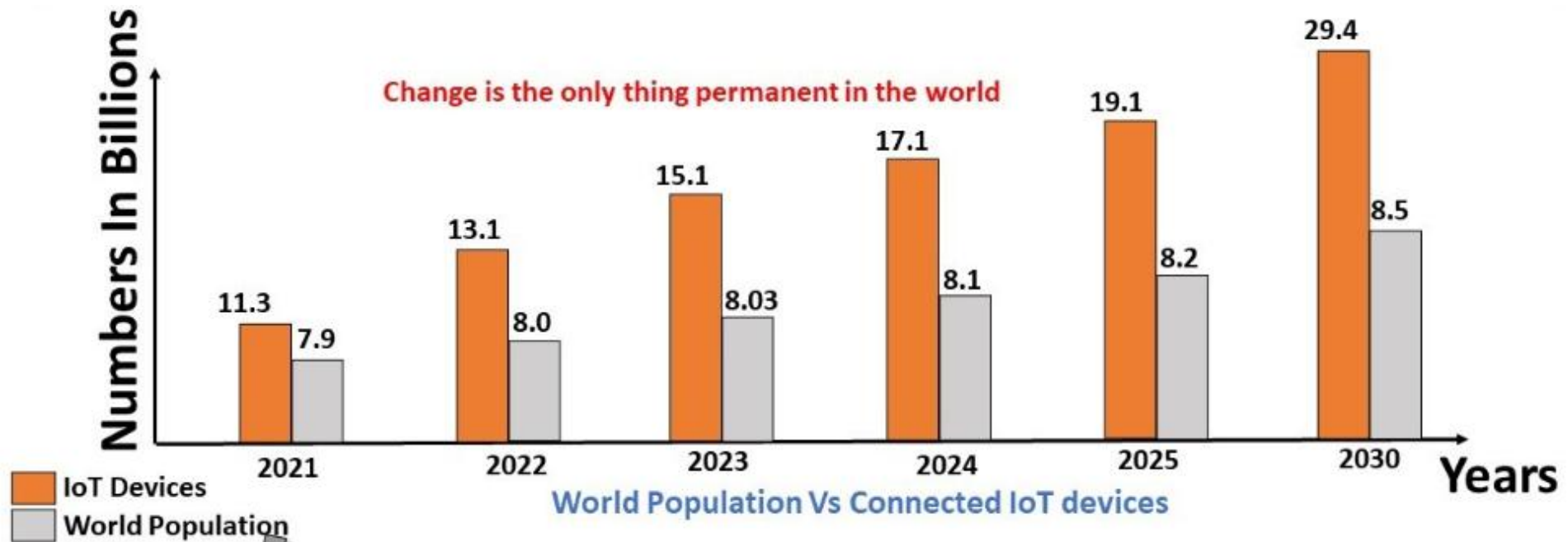


- Leads to automation and technical optimization
- Reduces waste and uses our natural resources effectively
- Minimizes human effort and saves time
- Saves the cost of production
- Improves productivity
- Enhances product quality
- Takes timely action to avert accidents
- IoT deployed with AI can improve the model/process behavior over time
- Asset tracking, traffic or transportation tracking, inventory control, delivery, supply chain tracking, and customer management can all be made more cost-effective with IoT
- IoT embedded with big data helps users extract useful information from raw data
- Improves monitoring with smart sensors
- Predicts or analyzes the outcome of operations/business
- Identifies fault locations
- Provides access to information in real-time

# Disadvantages of IoT

- Vulnerable to attacks
- Maintaining privacy is a major challenge
- Security of confidential data is a key concern
- Huge dependency on the internet
- Dependency on many devices and software
- We may lose control of our lives
- Risk of losing jobs
- Difficult to plan, build, manage, and enable a broad IoT framework
- Incompatible IoT standards among different operators
- Impact of overuse of IoT on people's health

# IoT Statistics



# IoT Characteristics (Features)

- ☐ Connectivity
- ☐ Sensing and Perception
- ☐ Dynamic and Self-Adapting
- ☐ Self-Configuring
- ☐ Interoperable Communication Protocols
- ☐ Unique Identity
- ☐ Heterogeneity
- ☐ Integrated into Information Network
- ☐ Scalability
- ☐ Security and Privacy
- ☐ Automation and Control



# Thank You