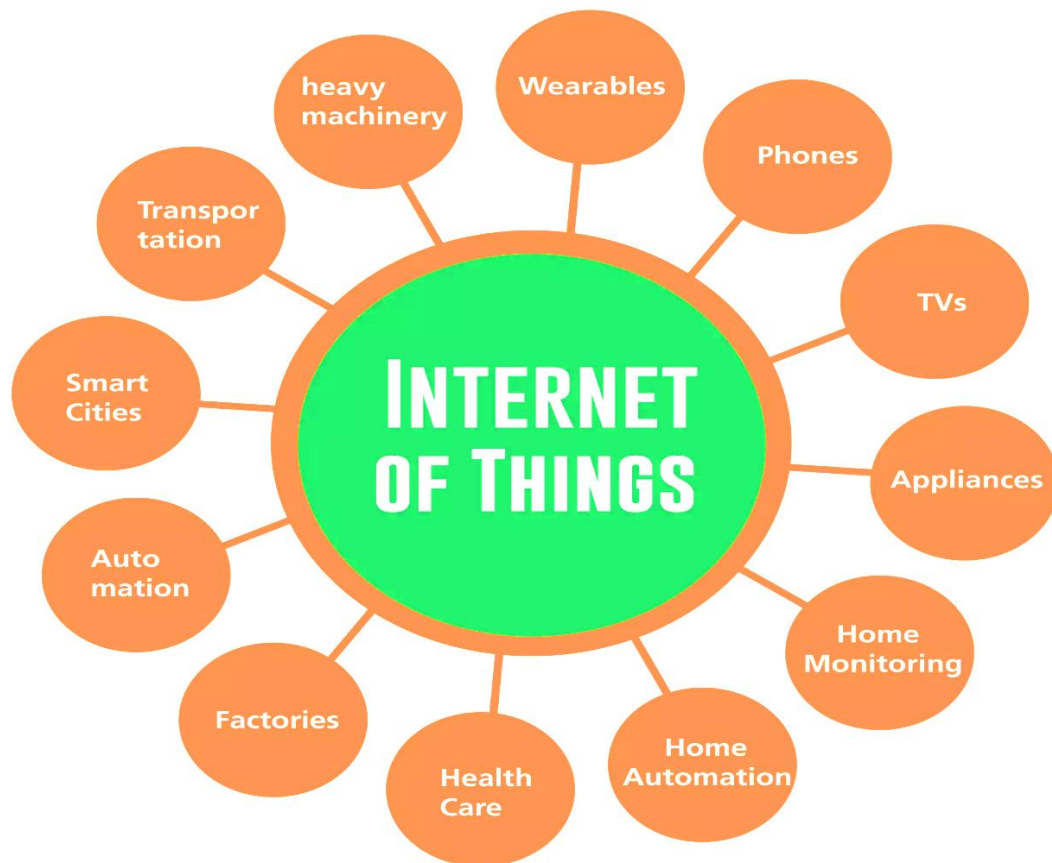


# IOT EXAMPLES



## 1. Smart Home Examples:

- **Smart Door Lock:** Opens with your phone, tracks who enters/exits
- **Smart Lights:** Turn on/off automatically, control from phone
- **Smart AC:** Adjusts temperature based on room occupancy
- **Security Cameras:** Watch your home remotely on phone

## 2. Healthcare IoT:

- **Smart Watch:** Monitors heart rate, steps, sleep
- **Patient Monitors:** Track vital signs in hospitals
- **Medicine Reminders:** Smart pill boxes that alert when to take medicine
- **Fall Detection:** Alerts family if elderly person falls

## 3. Agriculture IoT:

- **Soil Sensors:** Check if plants need water
- **Smart Irrigation:** Waters plants automatically when needed
- **Crop Monitoring:** Tracks crop health using sensors
- **Weather Stations:** Alert farmers about weather changes

## 4. Smart City:

- **Smart Traffic Lights:** Change based on traffic flow
- **Smart Parking:** Shows empty parking spots

- **Smart Street Lights:** Light up when someone passes
- **Waste Bins:** Alert when they're full

### 5. Retail Examples:

- **Smart Shopping Cart:** Calculates bill automatically
- **Inventory Tracking:** Alerts when items are low
- **Smart Shelves:** Show product information
- **Self-Checkout:** Pay without cashier

### 6. Education IoT:

- **Smart Attendance:** Records students automatically
- **Smart Boards:** Save everything written on them
- **Library System:** Track books automatically
- **Campus Security:** Smart cameras and access cards

### 7. Transport IoT:

- **Vehicle Tracking:** Know where your car is

- **Smart Fuel Monitor:** Shows fuel efficiency
- **Traffic Updates:** Real-time traffic information
- **Bus Tracking:** Know when bus will arrive

#### 8. Personal IoT:

- **Fitness Bands:** Track exercise and health
- **Smart Watches:** Get notifications, track activity
- **Smart Glasses:** Display information while wearing
- **Smart Water Bottle:** Reminds to drink water

These examples show how IoT makes everyday things smarter by:

- Collecting data through sensors
- Connecting to the internet
- Making automatic decisions
- Being controlled through phones/apps

- Making life easier and more efficient

### **Most Important Benefits:**

1. Saves time and effort
2. Reduces human errors
3. Provides better security
4. Saves energy and resources
5. Makes life more convenient

