

A Guide to the Internet of Things

What is the Internet of Things?

The Internet of Things (IoT) is a network of physical objects, or "things," embedded with sensors, software, and other technologies to connect and exchange data with other devices and systems over the internet. These objects range from everyday items like cars and household appliances to specialized equipment like medical devices and industrial machinery.

IoT Technology Stack



How IoT Works



5 Key Requirements for IoT Success

- Interoperability:** Ability of different devices and systems to work together.
- Scalability:** Capacity to handle a large number of devices and data.
- Security:** Protection of data and systems from cyber threats.
- Reliability:** Consistent and accurate data collection and transmission.
- Integration:** Seamless integration with existing IT infrastructure.

IoT Growth in Recent Years



\$457 BILLION Market Size by 2025

- ### Top 7 Industries Adopting IoT
- 1. Manufacturing
 - 2. Healthcare
 - 3. Agriculture
 - 4. Retail
 - 5. Transportation
 - 6. Smart Cities
 - 7. Energy

Top 4 Ways to Add Value with IoT

- Operational Efficiency:** Streamlining processes and reducing downtime.
- Enhanced Customer Experience:** Personalized services and faster response times.
- Cost Reduction:** Optimizing resource usage and maintenance.
- Improved Safety:** Proactive monitoring and risk mitigation.

What It Takes to Kickstart IoT

- ✓ Clear Business Case
- ✓ Data Strategy
- ✓ Security Measures
- ✓ Talent Development

- ### Top 7 Drivers for IoT Adoption
- 1. Data-Driven Decision Making
 - 2. Operational Efficiency
 - 3. Customer Experience
 - 4. Cost Reduction
 - 5. Innovation
 - 6. Regulatory Compliance
 - 7. Competitive Advantage

What's Next for IoT?



Predictions for 2022



6.2X Growth

Expected growth in IoT market size from 2018 to 2025.