CPS IoT
Cyber Physical System — Internet of Things
IT & Electronics Supporting the Future

What is Cyber Physical System?

CPS makes vibrant lives and industries.

A wide range of data is collected from the physical world via sensor networks, analyzed and transformed into knowledge in cyberspace using big data processing technologies and other tools to create information and value that will energize industry and solve social problems.

Hydrosphere
Flood control, marine products, ocean resources

Flood control and flood simulation

Checking fishing ground status

Vegetation
Agriculture and forestry

Increasing the amount of food

Measuring forest activation
Utilizing forest resources

Resilient infrastructure
Cities, energy, disaster prevention

Building maintenance
Waterworks and wastewater maintenance

Power systems

Indoor-outdoor 3D modeling
Map building for autonomous mobile robots

Health
Infectious disease prevention and treatment

Health management
Medical diagnosis

In vivo imaging and sound measurement
Jet-injected drug delivery

Human society

Guidance and senior support

Physical world sensing

Physical world feedback

Diverse big data
Real-time collection, storage and processing technologies

Context-aware feedback technologies

Energy
Food Safety
Water
CO_2 Security
Population
Health

Wide-area sensing

Feed back results of analysis

CPS IoT

M2M

Big data

High-level real-world sensing and actuation technologies

Ultra-high-speed Internet and cloud technologies

High-level real-world modeling technologies

Real-world big data processing technologies

Multi-core processor servers
Very-large-scale disk storage

JEITA