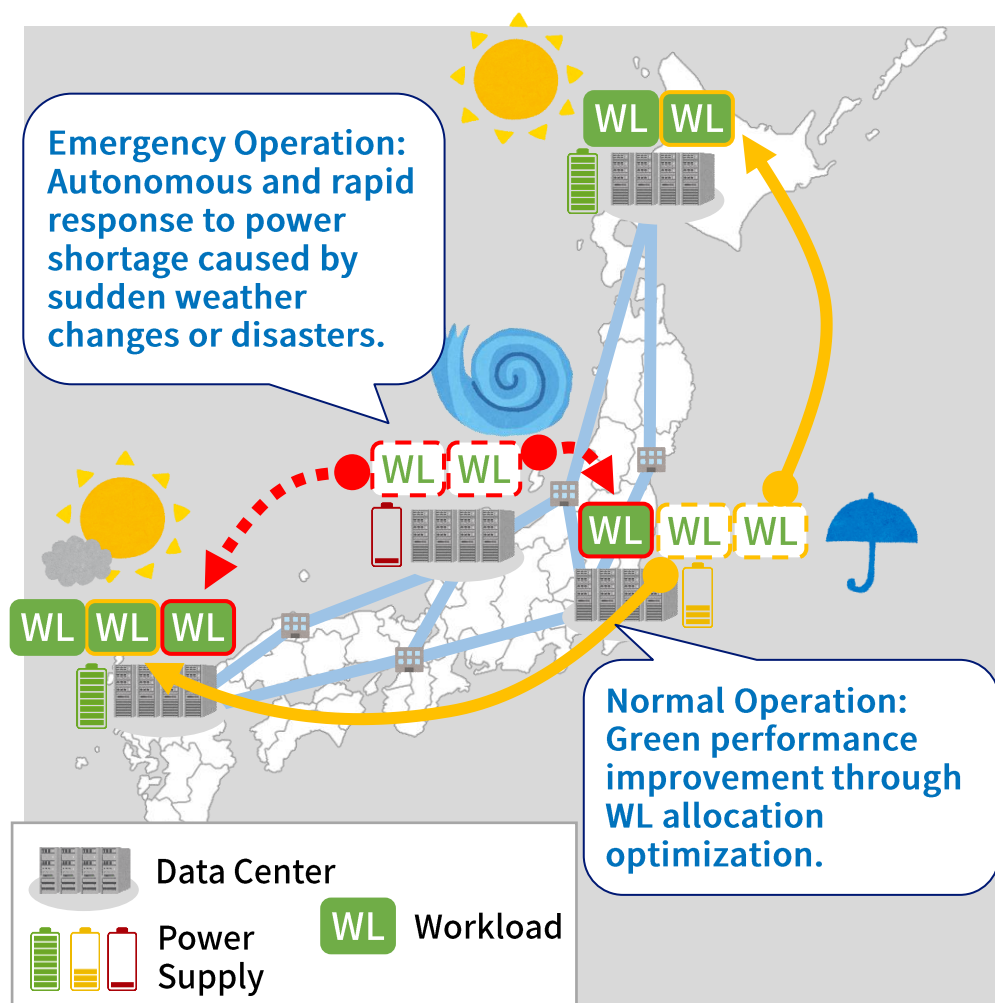


## Autonomous ICT resource control for disaster

Enabling ICT services for flexible adaptation to  
power demand and resource fluctuations

#Business Resilience #Productivity Improvement #Green Transformation



### ///Technical Issue

The control of ICT resources needed to sustain services can unintentionally affect them due to transient increase in traffic or power consumption.

### ///Research Goal

Sustaining service continuity in emergencies by preventing network congestion and power shortages. (reducing impact time by 99%)

### ---Technology

A proprietary optimization algorithm that models the transient characteristics of ICT services and power supply-demand (including service and power consumption impacts during control), preventing congestion and shortages while efficiently optimizing resource allocation in time and space.

### ---Novelty

Conventional technologies risk power shortages or congestion during control due to unaccounted traffic and power increases. This technology models transient traffic and power characteristics, ensuring rapid adaptation to changes without causing shortages or congestion.

### ---Applicable Business

In the field of information and communications industry, this technology can be applied to use cases such as BCP measures, reducing electricity costs, and contributing to sustainability through the effective use of renewable energy that would otherwise be discarded due to output restrictions, for customers utilizing multiple distributed data centers or cloud/on-premises DCs (Basic technology establishment planned for FY2024, prototype completion by FY2025, and demonstration completion by FY2027).

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