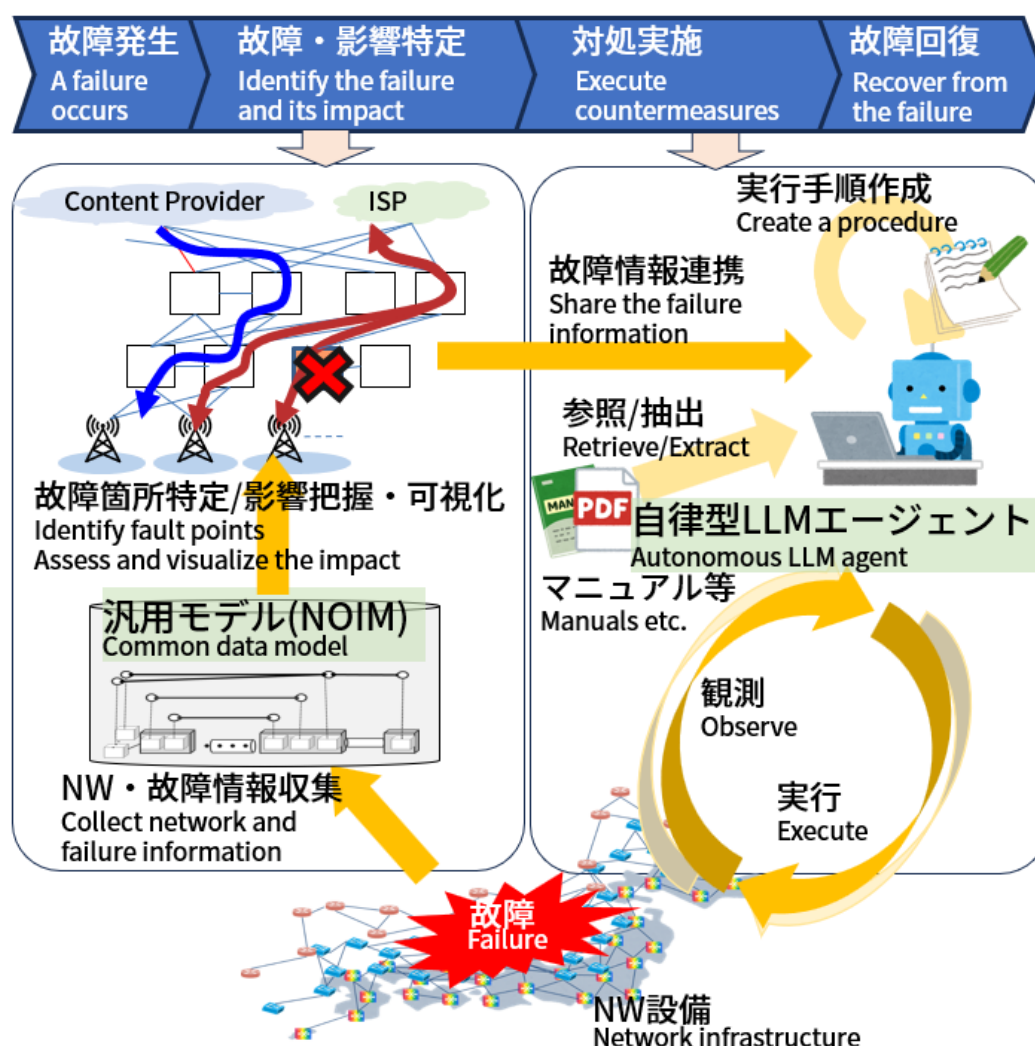# IOWN INTEGRAL

Impact assessment and countermeasure navigation for network failures

Carriers quickly restore service by assisting in responding to complex network failures

#Productivity Improvement

///Technical Issue

Response to large-scale network failures needs to be analyzed using the management information of multiple networks, but separate management makes it difficult.

///Research Goal

We aim to issue an initial report within 30 minutes and respond to complex failures within 60 minutes by visualizing service impact and navigating the response.

---Technology

- Integrated management and visualization with the common data model (NOIM) for multiple networks.
- Automatic generation of fault identification rules.
- LLM agent technology to improve LLM inference capabilities while adapting to the situation.

---Applicable Business

In the telecommunications business:
- Centralized network resource management, including mobile networks, and failure location estimation and impact assessment. (technology established in FY 2025) [Initial report issued within 30 minutes].
- Acceleration of failure recovery countermeasures. (technology established in FY 2026) [recovery countermeasures within 60 minutes].

---Novelty

- A model that can handle multi-domain and multi-layer in a unified manner to estimate of the impact and locations of failures with a general-purpose logic.
- More accurate navigation for network fault recovery than conventional LLM agent methods.

Exhibitors＝ NIPPON TELEGRAPH AND TELEPHONE CORPORATION

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