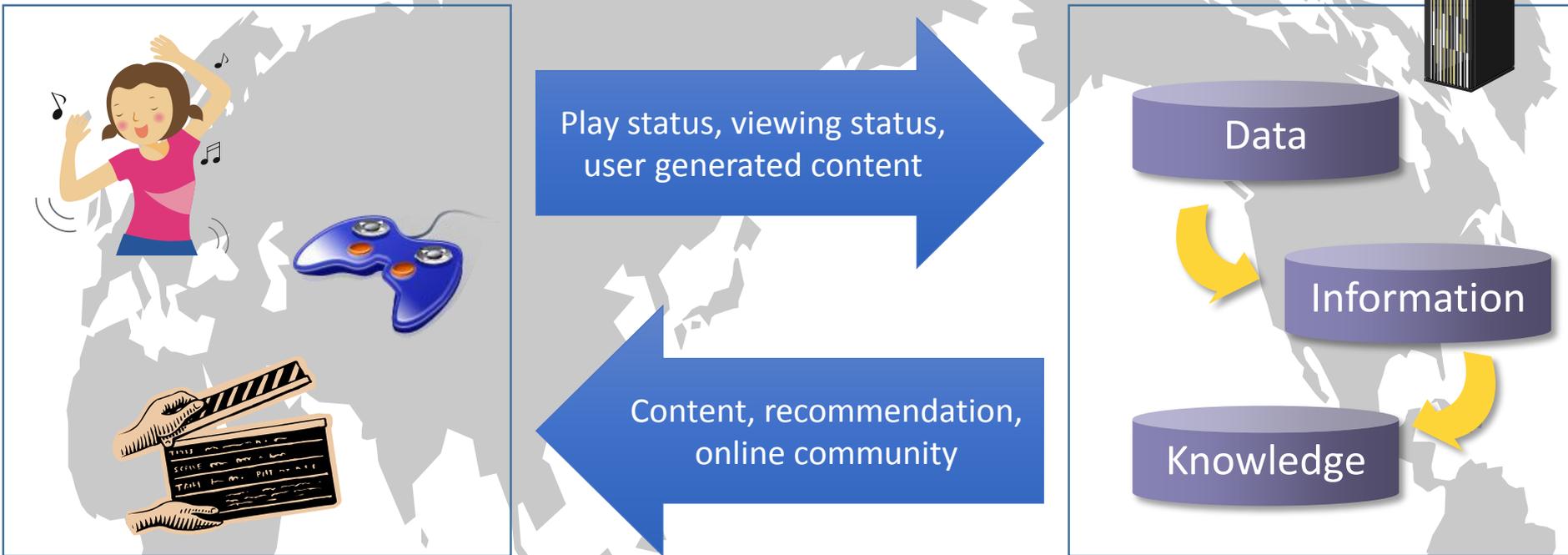# Appendix 2
Entertainment Platform

Overview: deliver tailor-made wow experience by leaning taste of each user

Play status, viewing status, user generated content

Content, recommendation, online community

Data

Information

Knowledge

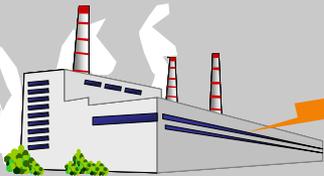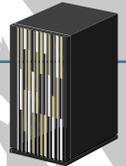Benefit on user: wow experience, self-publishing, interaction with friends

Benefit on service provider: trend analysis, creation of new services, marketing

Appendix 3

Operation & Maintenance of Overseas Plants and Sites

<Outline>
- ☐ Centrally collect operation data (operation states, costs, and alarms, etc.) of overseas plants and sites located in various countries.
- ☐ Utilize the know-how obtained through data analysis for more efficient operation at each site (optimization of production, maintenance, and investment, etc.) and for proactive risk management.

Operation information
(Operation states, costs, and alarms, etc.)

Data

Information

Knowledge

Instructions for more efficient infrastructure operation
(Production, maintenance, etc.)
Risk management

Effects on field side: Improvement of productivity, contingency planning for disaster

Effects on service side: Accumulation of operation know-how through centralized data analysis and management, optimization of operation at each site

Appendix 4
Cultivating Greenhouse Strawberries in India

Keidanren
Policy & Action

Outline: This system supports greenhouse strawberry cultivation in India. It enables local cultivators to measure and record greenhouse environmental data, which can also be monitored remotely from Japan. Cultivation experts in Japan assess this data and provide advice and recommendations, promoting overall productivity enhancements.

India
Greenhouse Management Office

Tablet PC
Application

Greenhouse

EC/pH meter

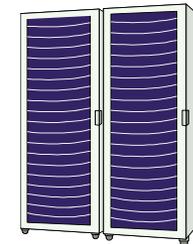Data logger

Tablet PC
Application

Greenhouse internal environment
(Temperature, humidity, solar insolation, EC/pH levels of soil and water).

Cultivation advice

Japan
Cloud server

Cultivation experts

Data monitoring and advice

NEC Solution Innovators

Master data management
System maintenance

Effect and results for India:
Productivity improvement, acquisition of Japanese cultivation technology.

Effect and results for Japan:
Accumulation of overseas cultivation expertise.

Appendix 5
Export Value-Added Japanese Food

Export high quality Japanese food frozen by special freezers that maintain freshness. Establish food safety and security using ICT.

Sales and inventory management

Distribution and temperature control

Recipe sharing

Sales, inventory, logistics quality, recipe and ingredients data →

← Traceability and branding information, etc.

Supply unprocessed food

Produce and supply processed food

Distribute marketing information using social media

User Benefit: stable supply of high quality, high value-added food

Provider Benefit: increased exports of high margin products

Appendix 6

Remote Monitoring of Freezers

Operational data of freezer equipment is monitored for preventive maintenance and black box access detection. This enables improved customer service and protection of advanced technical information.

Uptime, internal temperature, error data, black box access

Operation / maintenance advice, preventive repair, faster failure identification

Data management (Cloud)

Monitoring and analysis

Maintenance

User support

User Benefit: reduce freezer downtime and maintenance cost

Provider Benefit: establish new income source, protect advanced technology

Appendix 7

Analytics on Electronic Vehicle battery related information

<Outline>:

Collect evaluation and functional data of EV batteries in Japan and US

Analyze the above data to develop high performance battery and improve services

Battery related data :
Vehicles data, capacity,
temperature, electrical
current value, etc

Improvement of service,
etc.

Effects on field side : Improvement of service quality and development of more effective battery in the future
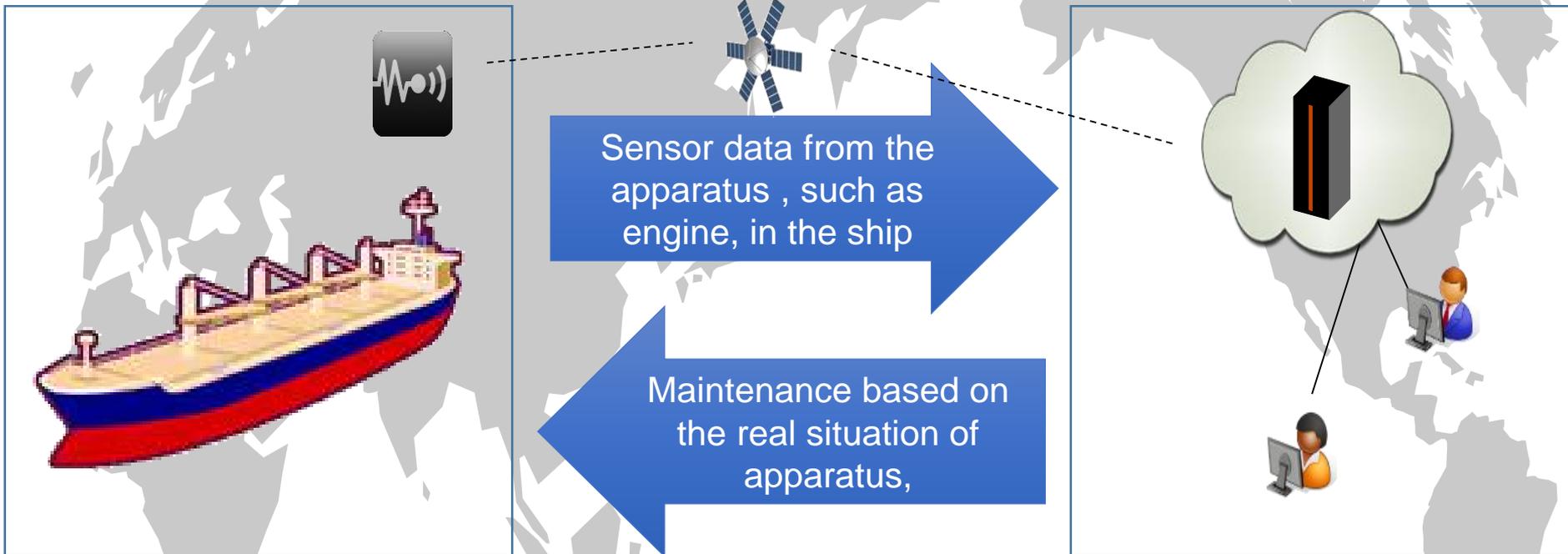
Effects on service side : Obtaining accumulated info. To contribute future product and technology development

Appendix 8

Efficient maintenance of large ship

<Outline>
Collect the sensor data from the apparatus in the ship of a large ship navigating the world to realize preventive and efficient maintenance

Sensor data from the apparatus , such as engine, in the ship

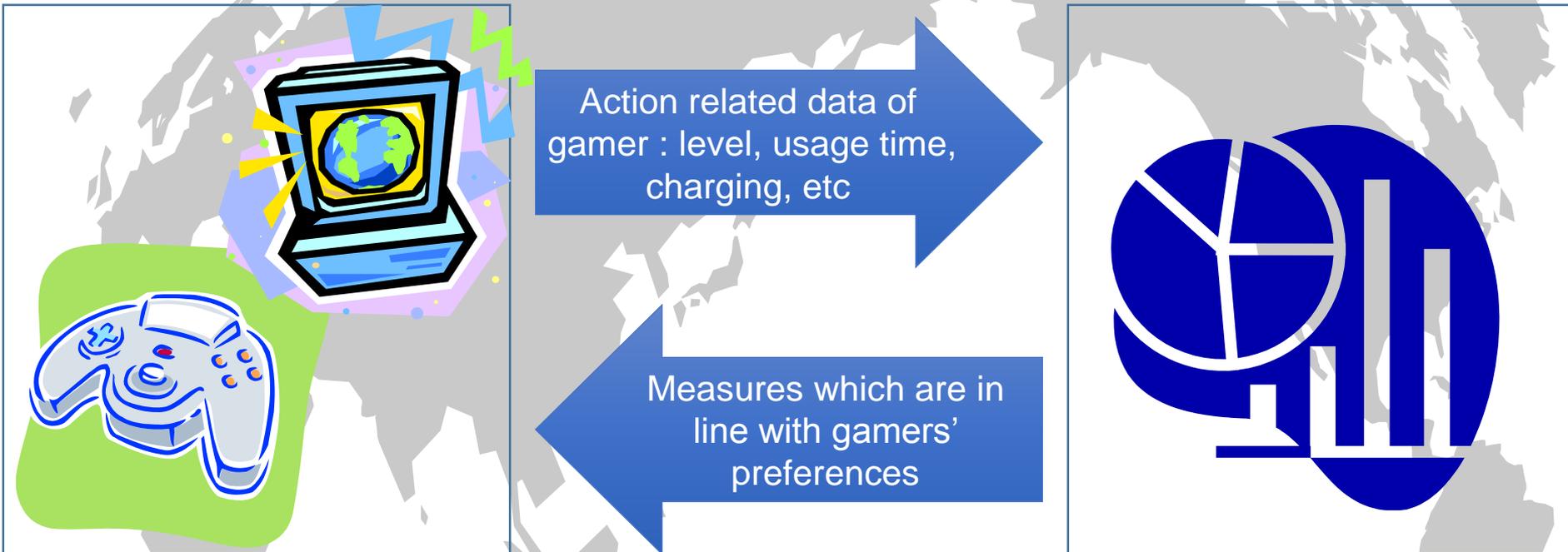Maintenance based on the real situation of apparatus,

Effects on field side : Secure safe service of the ship and lower costs of maintenance

Effects on service side : Offer of the ship's class service of the highest quality

Appendix 9

Action analysis of gamers

<Outline> Collect data and analyze actions of social gamers to respond in line with each Gamers' preferences in short period

Action related data of gamer : level, usage time, charging, etc

Measures which are in line with gamers' preferences

Effects on field service: Provide one to one measure/ game in line with his/her preference in timely manner

Effects on service: Improve productivity of analysis. Contribute to sales increase

Thank you for your attention.

Cross Border E-Commerce in the Era of IoT

July 13th , 2016   Toshinori