

Capital Alliance with OSIsoft, LLC



April 5th, 2016

Mitsui & Co., IT & Communication Business Unit

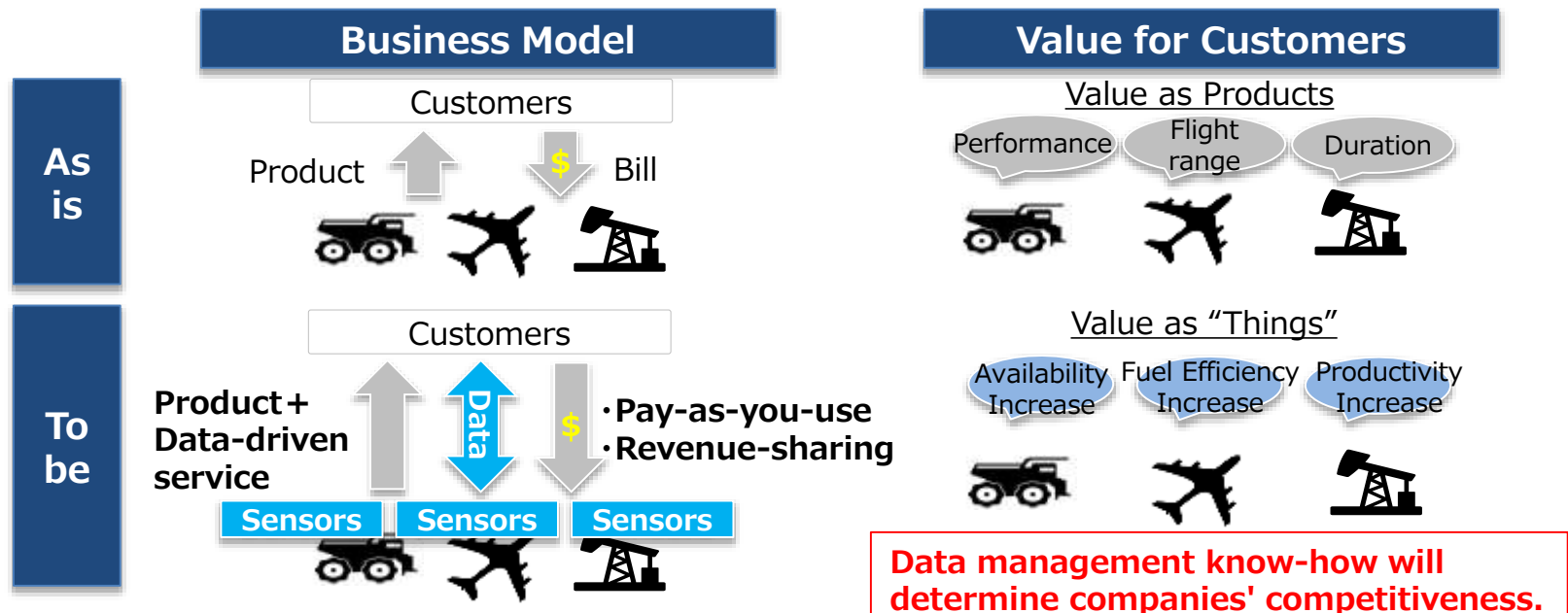
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1-1. IoT trends

- The Internet of Things (IoT) is transforming business models.
- The **conventional “product-sales model”** will be **transformed into a “service model”** that generates value for customers, enabling them to achieve cost reduction and greater earnings by drawing on the data gathered from “things”.
- We are approaching a time when companies' competitiveness will be determined by data management know-how, and **Mitsui, driven by IoT knowledge, will create new business and transform our business models.**

Innovation with IoT: Transformation from “product-sales model” to “service model”

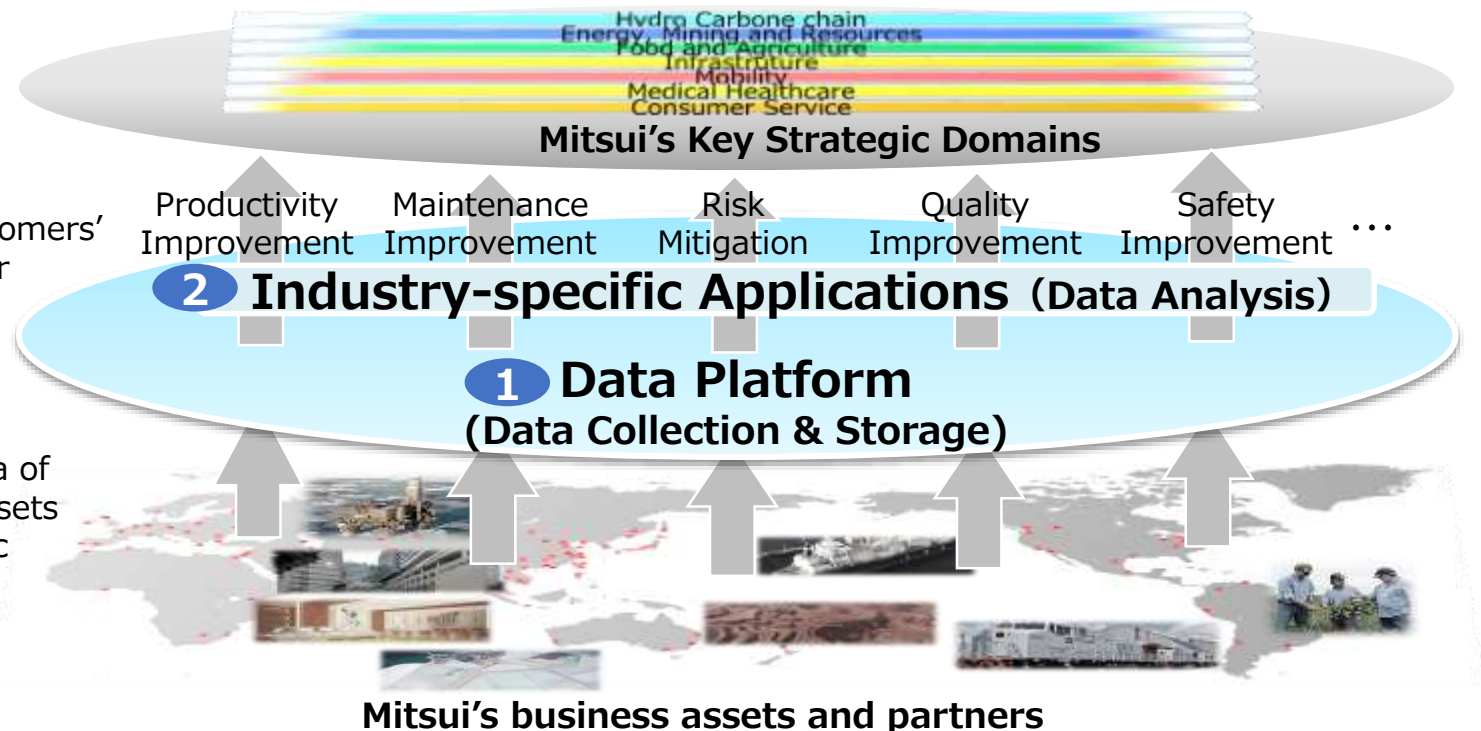


1-2. Mitsui's IoT Vision

- Invest proactively ① in "Data Platform" applicable to industry-specific business ② for establishing solutions responding to individual industrial needs.
- By leveraging our extensive business assets and neutrality as a *sogo shosha* (general trading company), we aim to realize "IoT for Customers".
- Provide services that contribute to users' productivity improvement and creation of added value for customers through collaboration with partners.

• Provide optimal applications for solutions for customers' business ("IoT for Customers")

• Operational data of each business assets
• Industry-specific needs for IoT



2-1. OSIsoft Overview



- **Name:** [OSIsoft, LLC](#) (Limited Liability Company in Delaware)
- **HQ:** San Leandro, California, USA
- **Founded:** 1980
- **CEO (Founder):** [J. Patrick Kennedy](#)
- **Location/Employees:** 21+ countries/1,200+ employees
- **Main Investors:** Founder, Kleiner Perkins Caufield Byers (VC),
Technology Crossover Ventures (VC), Mitsui & Co., etc.
- **Business:**
 - **Development/sales of the IoT data management software “PI System” for a variety of industries, such as utilities, oil & gas, and manufacturing**
 - **Global leader in data management technologies for industrial customers, M2M systems, and the Internet of Things**
- **Revenue:** USD 300+ million
- **Investment Ratio:** 5.0%



2-2. OSIsoft Overview

- **Strength:**

- OSIsoft has specialized in development/sales of the PI System since the 1980s and become a **global leader in data management technologies for industrial customers, M2M systems, and the Internet of Things.**
- The strength of the PI System is **data compatibility** that enables collection of a huge variety of sensor-based data (compatible with 450+ data protocols)
- Also, data-compression technology enabling storage of 10 years of msec interval data and **high-quality customer support services**

- **Track Record:**

- Installed in 127 countries/2,200 companies/17,000 sites
 - 1,000+ power & utility companies (50-60% share of all installed capacities in the US)
 - 95% share of oil & gas companies ranked in the Fortune Global Top 40
 - 65% share of process-manufacturing companies ranked in the Fortune Global Top 500
- Core industries: Utility, oil & gas, chemicals, mining, pharmaceutical, pulp & paper, etc.

Track records



1. CAISO

(California Independent System Operator)

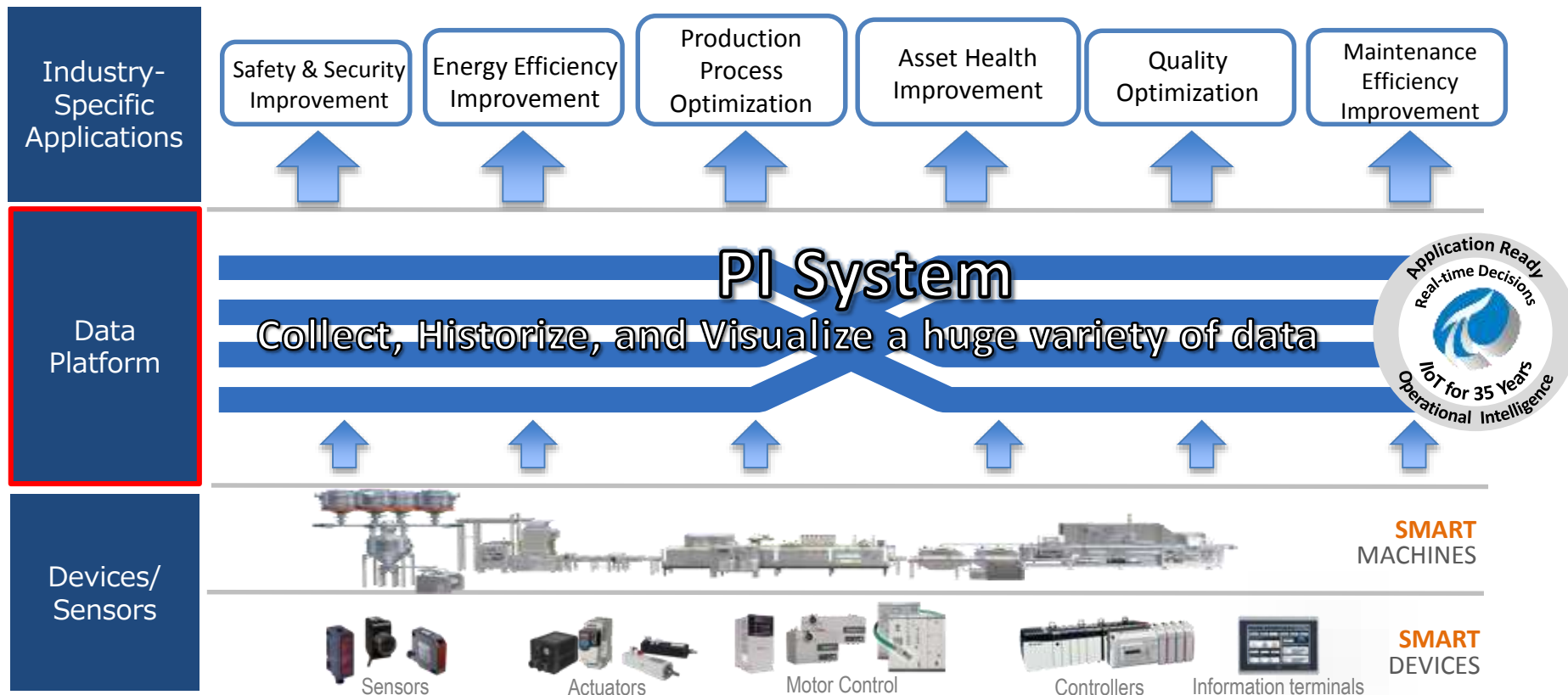
- Real-time monitoring for California power grid with PI System
- Installed in all US grid operators

2. [Saudi Aramco](#)

OSIsoft is the best partner for Mitsui in the data platform business field.

2-3. IoT Data Management software “PI System”

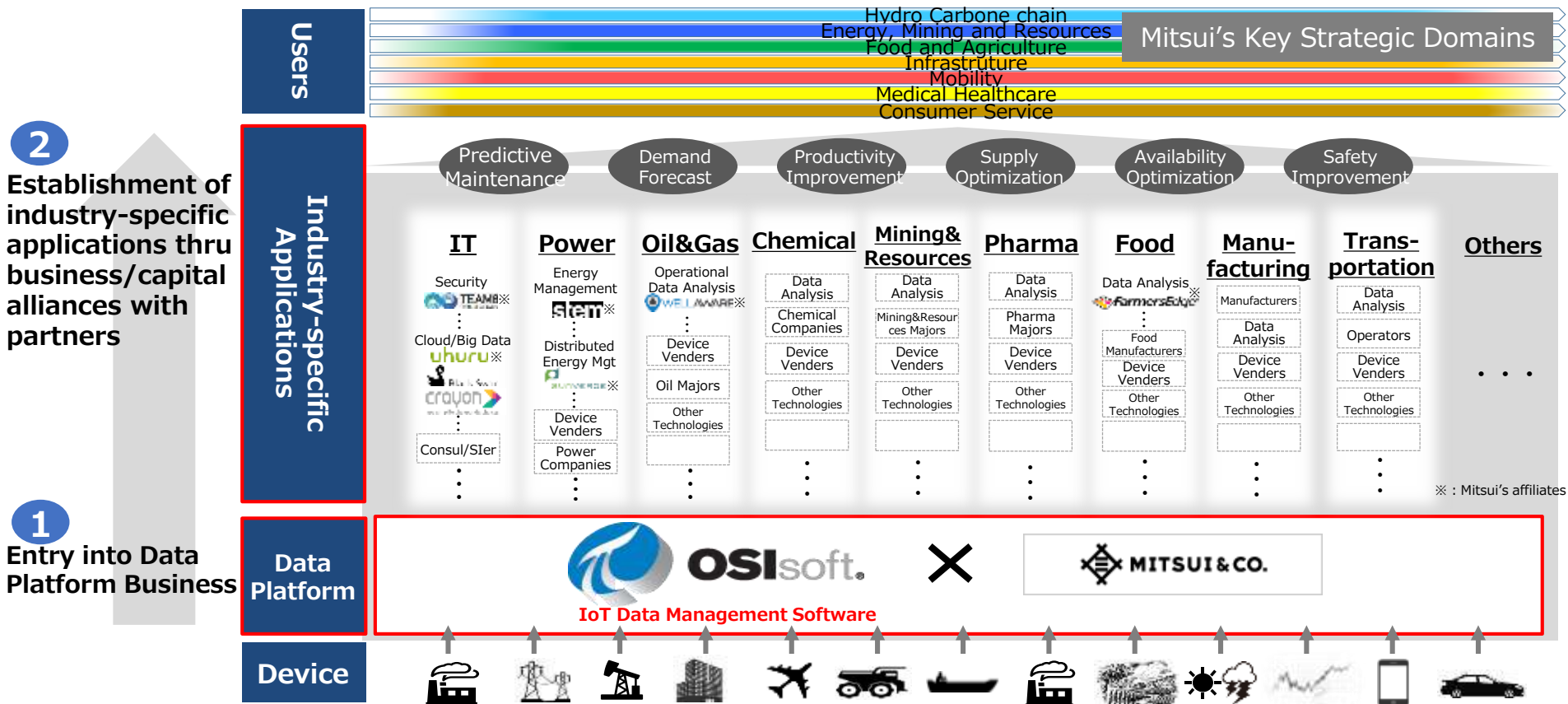
- The PI System is a “Data Platform” that collects/stores/outputs sensor-based data of a huge variety of devices and visualizes the real-time data and simplifies the introduction of industry-specific applications.
- With increasing customer need for IoT and the spread of industry-specific applications, the value of the Data Platform should also improve.





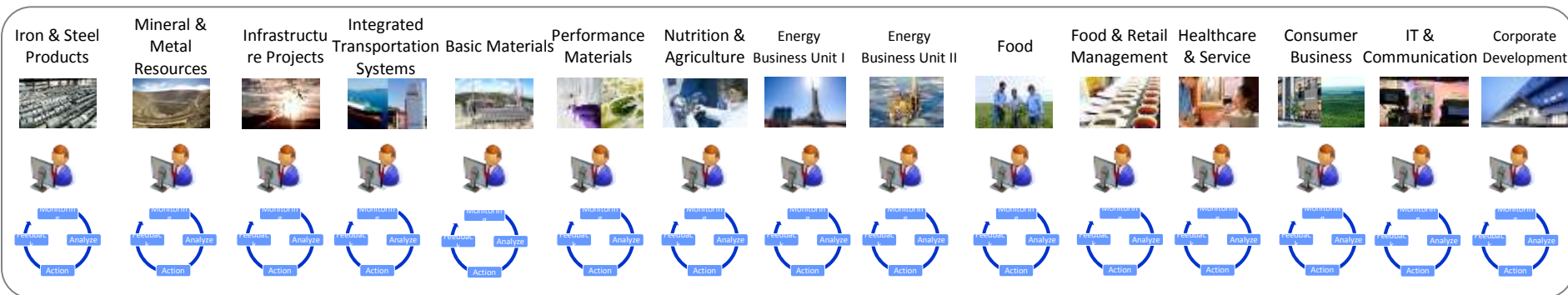
3-1. Strategy for Industry-Specific Applications

- Enter Data Platform business through a capital alliance with OSIsoft and support OSIsoft's growth
- Grasp customer needs for IoT and identify business opportunities through partnership with OSIsoft
- Develop industry-specific applications through business/capital alliances with domestic and overseas IT companies and industrial customers



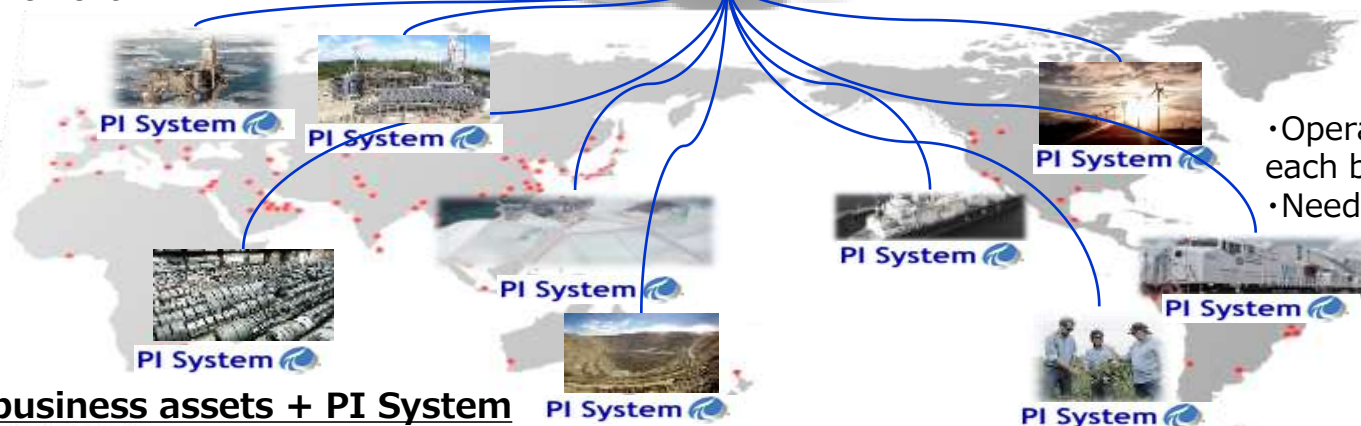
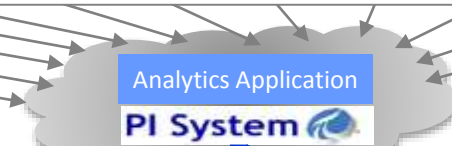
3-2. Digital Transformation of Mitsui

- Proactively utilize the PI System and industry-specific applications in the Mitsui & Co. group
- Work to achieve improved efficiency of business asset operations and cost reduction, aiming at improvement of the profitability of existing business and business transformation



Mitsui's 15 Business Units

- Monitoring/Analysis of operational data
- Cost reduction/Productivity improvement



- Operational data of each business asset
- Need for IoT

Mitsui's business assets + PI System

360° business innovation.



MITSUI & CO.