

# DX STRATEGY 2024

## Mitsubishi Electric DX Strategy

MITSUBISHI ELECTRIC CORPORATION

May 29, 2024



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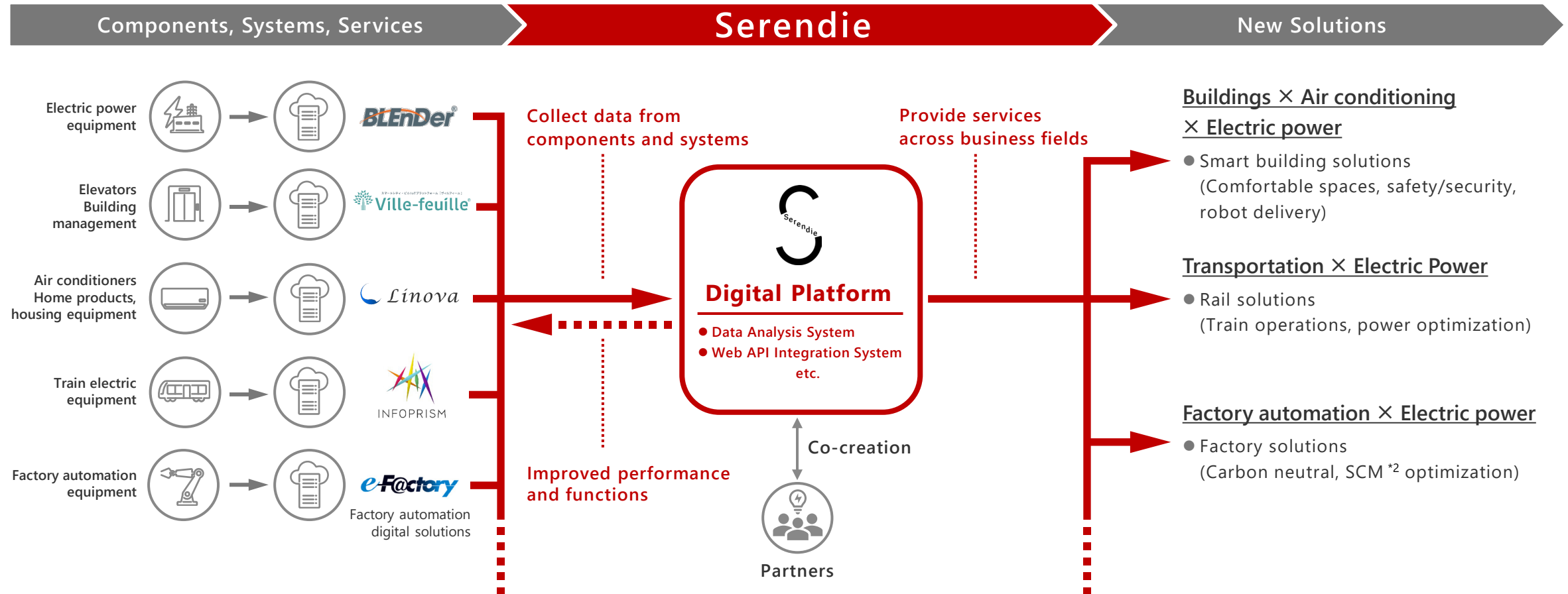
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## Digital Platform "Serendie"

Serendie\*1 comprises a data analysis system and a Web API integration system

Provide new solutions using Serendie and demonstrating technological strengths and creativity

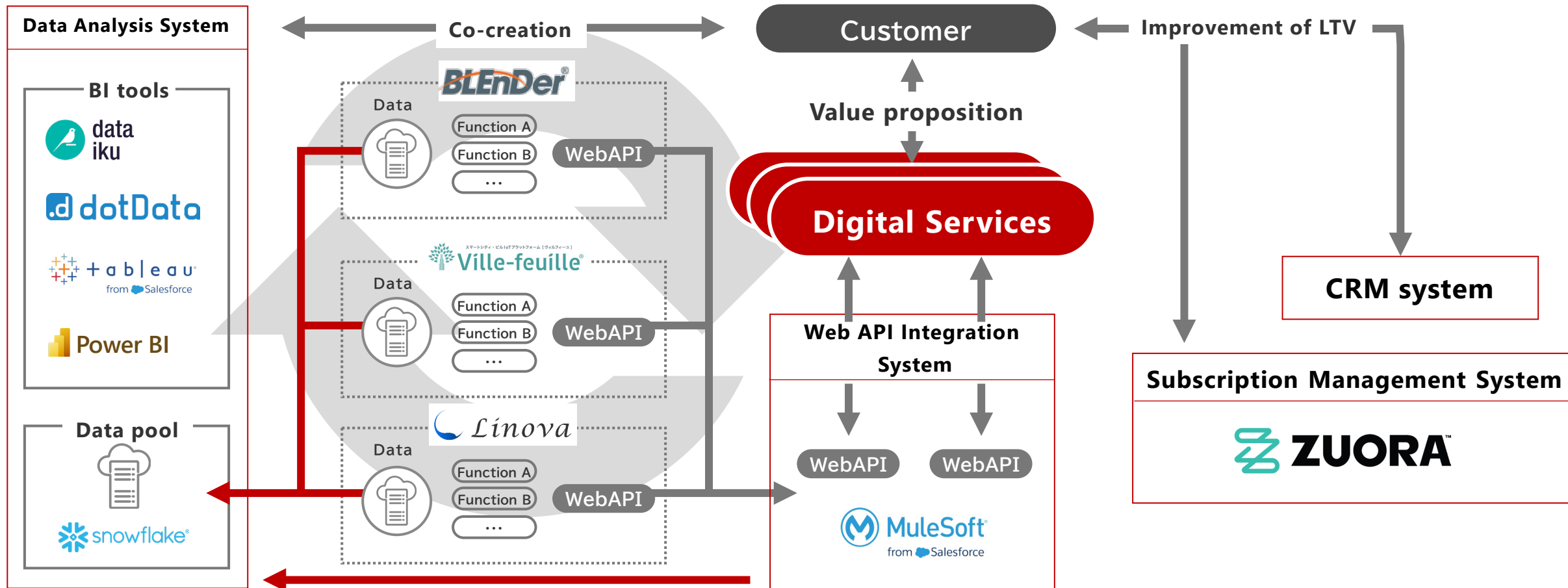


\*1 :Pending Trademark, \*2 SCM: Supply Chain Management

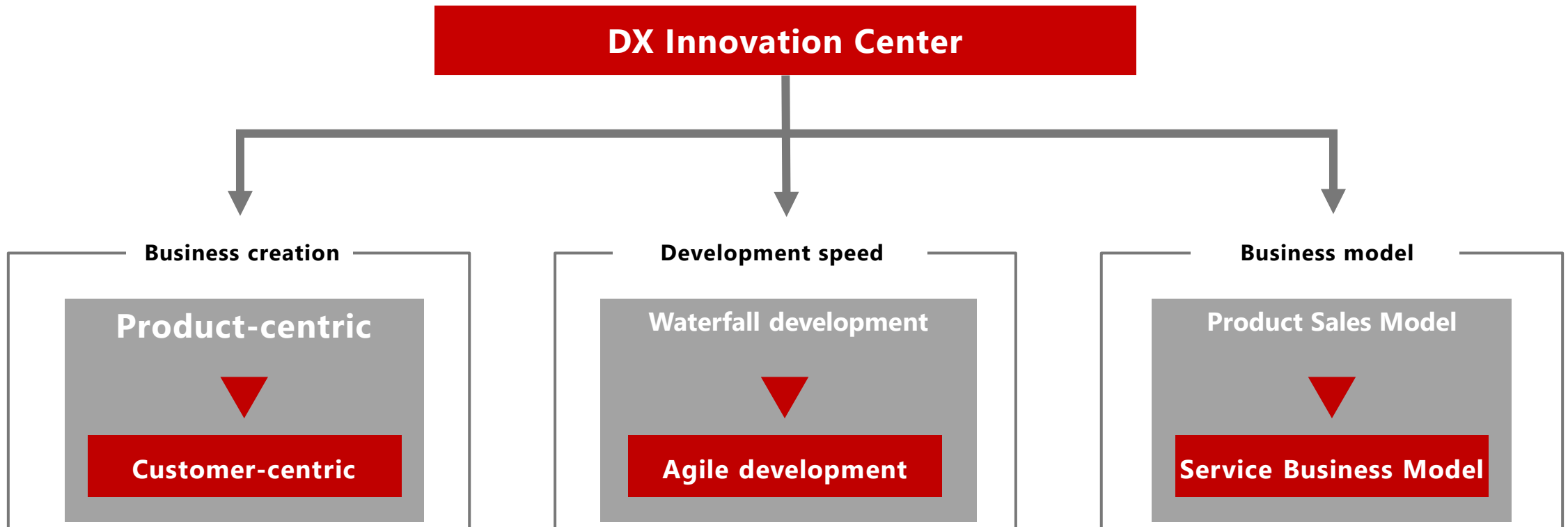
# The Technology Infrastructure to realize "Serendie"

## 1. Digital Platform "Serendie"

DX Innovation Center, established in April 2023, is implementing four standard systems to promote Circular Digital-Engineering. These systems enable the integration of internal and external technologies and know-how so that creation of new digital services can be accelerated.



We are promoting activities to significantly change our mindset toward accelerating business transformation aimed at "Circular Digital-Engineering."



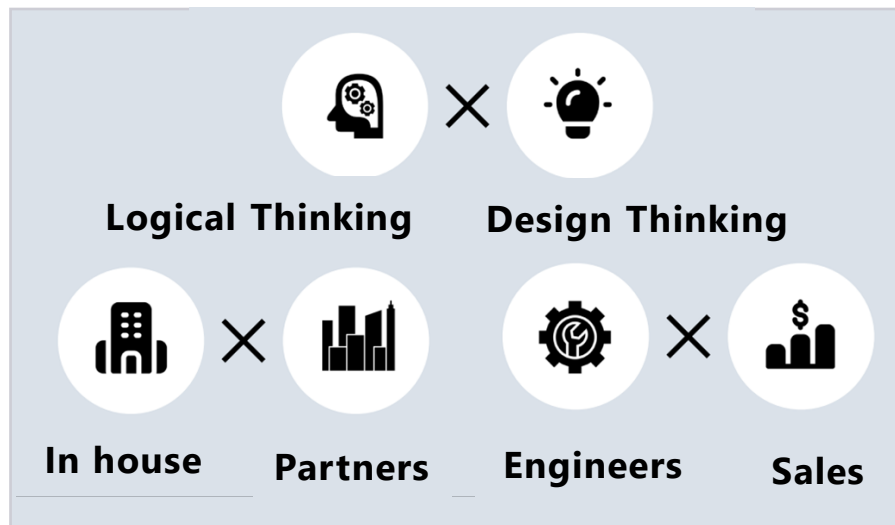
2

## Serendie Solutions

The DX Innovation Hub fosters new ideas through the fusion of diverse cultures. We have dedicated to build co-creation spaces for experimentation and inspiration globally, where unexpected encounters between people, data, and technology spark passion and untapped value, and name these spaces as "Serendie Street."

The Serendie Streets accelerate our mindset transformation into a circular digital-engineering company and will promote co-creation with globally diverse talents, both within and outside the company.

### Digital value creation process



### Agile work style

### Cross-boundary community







**Scrum activities by multiple business units  
within the company  
(Railway LMS\* Data Analysis)**

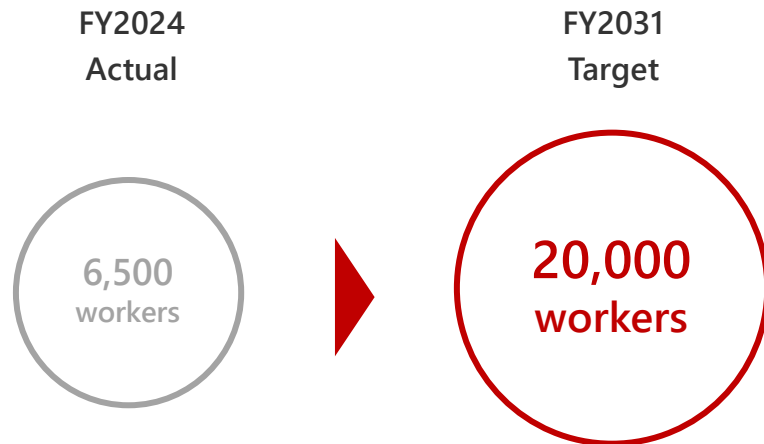
\* LMS: Lifecycle Management Solution



**150 people gathered for the Serendie Street YDB  
Opening Event (April 2024)**

Expand DX human capital for the Mitsubishi Electric Group to 20,000 workers through reskilling, M&As, etc. Define DX skillsets from customer interaction to development, and secure the appropriate human resources

### Initiatives to expand DX human capital



- Reskilling of IT technicians involved in embedded software development and major systems development
- Expand talent via hiring and M&As
- Provide DX education to all employees

### DX skill set

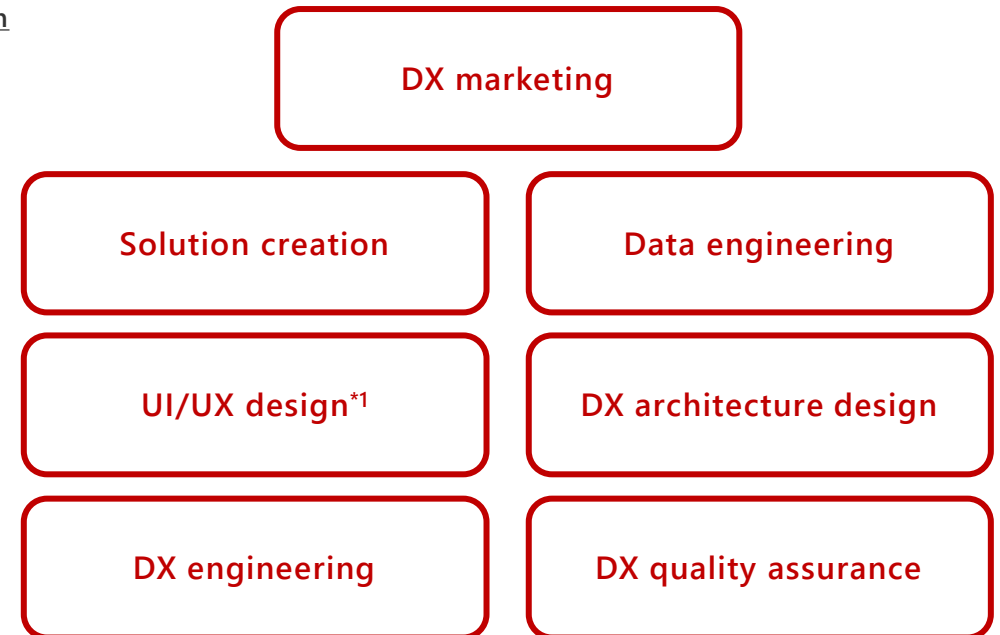
Understand the skill set of each employee and promote a human resource strategy for recruitment, education, and career development

Customer interaction



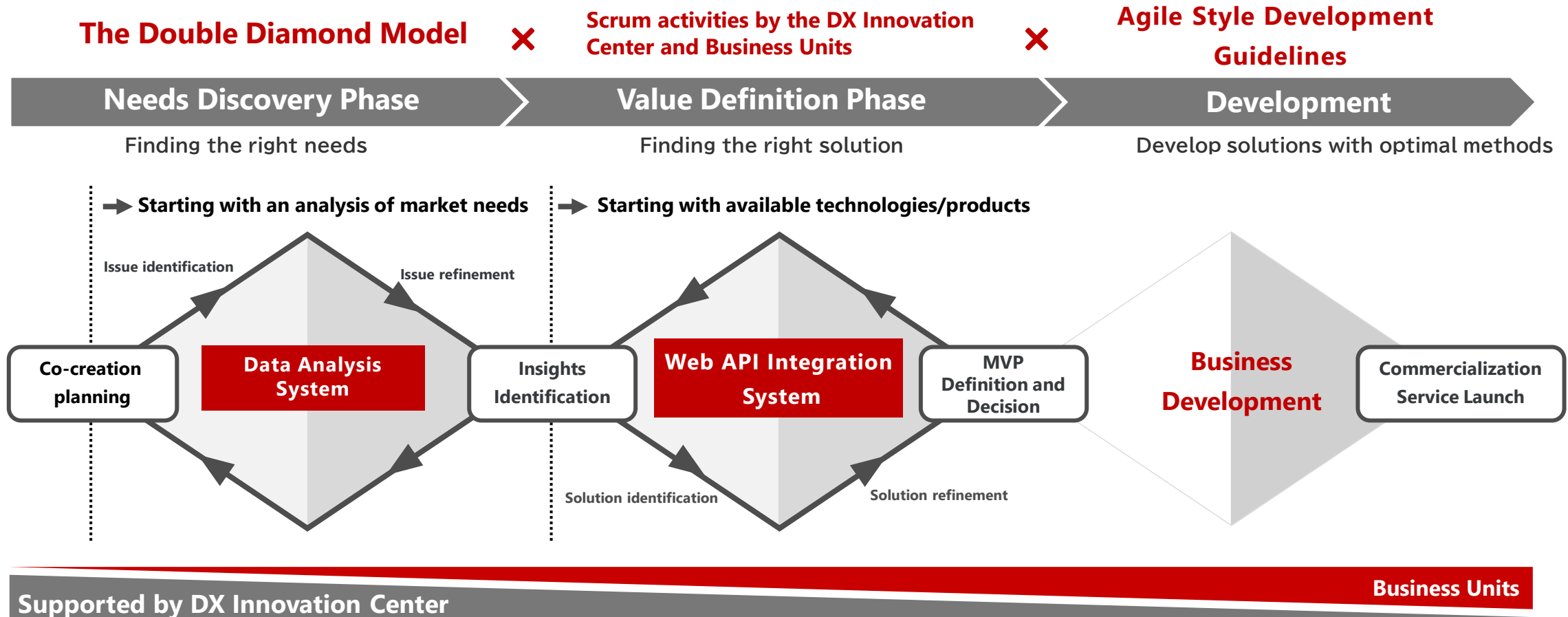
Customer relation

Development



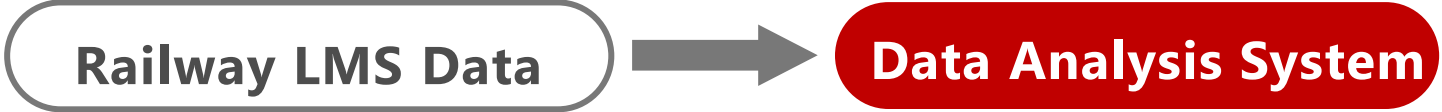
\*1 UI: User Interface, UX: User eXperience

To accelerate business creation through collaboration with our customers and partner companies, we will promote scrum activities utilizing our technology infrastructure.

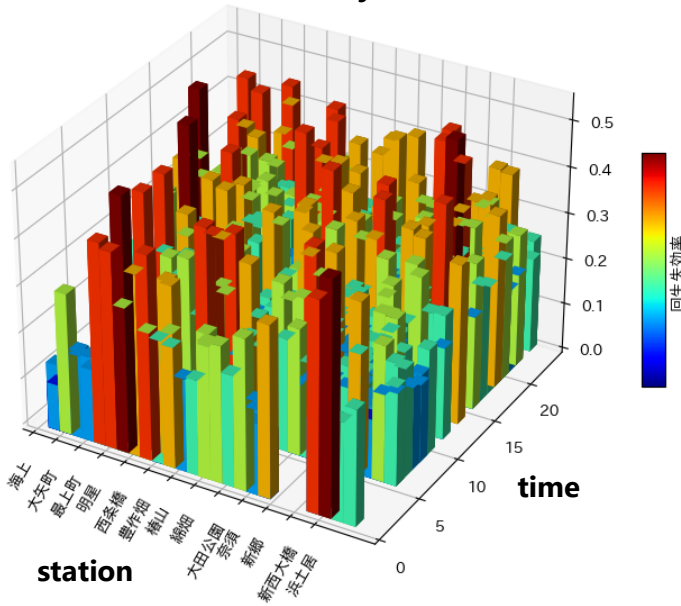


# 3 Scrum Project Examples

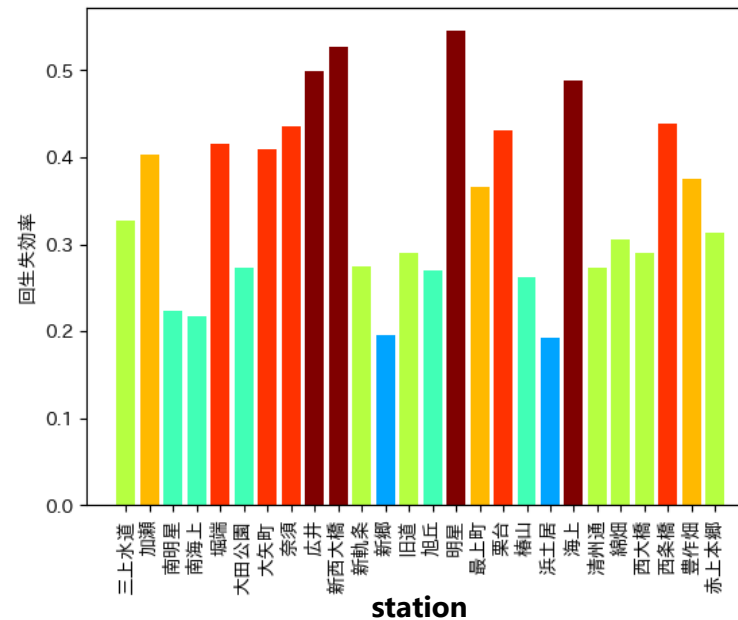
Using the results from the analysis of Railway LMS\* Data, we have initiated co-creation of integrated solutions including railway rollingstock maintenance, train operation, and power optimization with transportation operators.



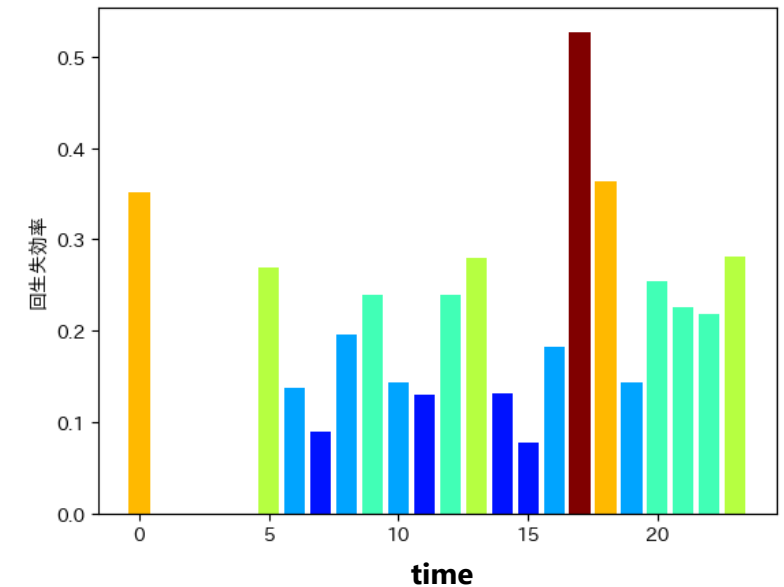
Trends in regenerative inefficiency between stations and by time slot.



Trends in regenerative inefficiency between stations



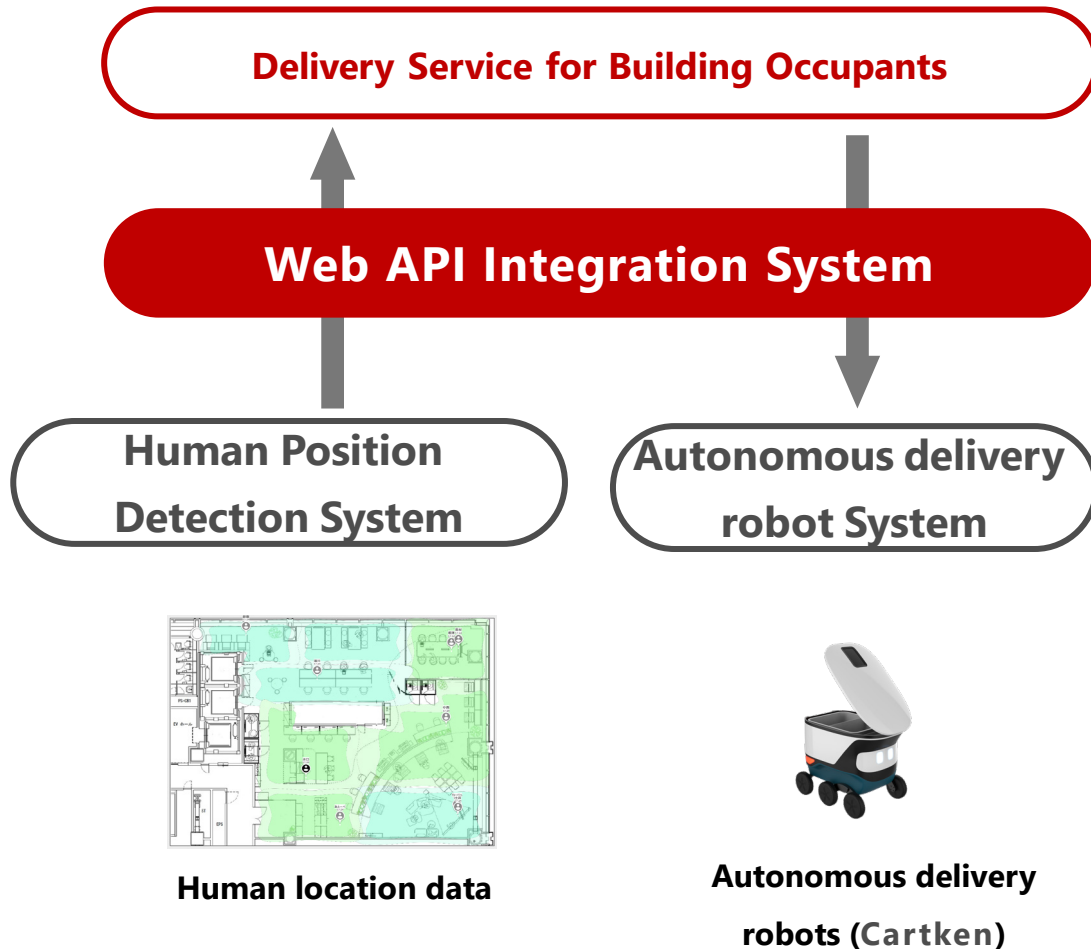
Trends in regenerative inefficiency by time slot.



**By effectively harnessing the regenerative power generated when a train stops, rather than wasting it, we can help improve energy efficiency.**

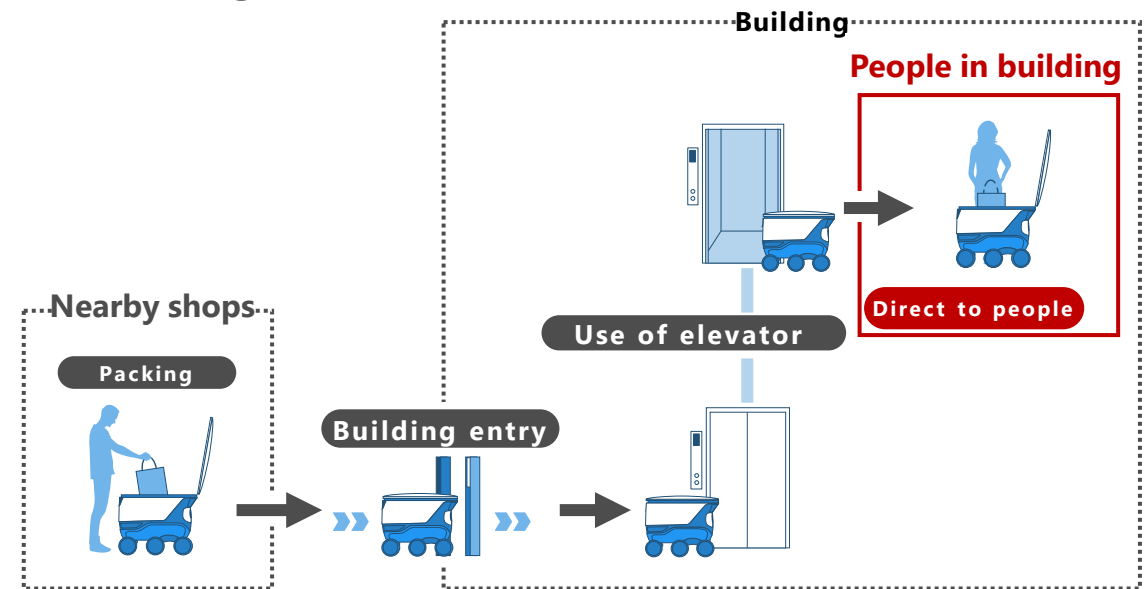
\* LMS:Lifecycle Management Solution

New development of an in-building service utilizing human location data and autonomous delivery robots: Building x Life x Vehicle (Cartken)



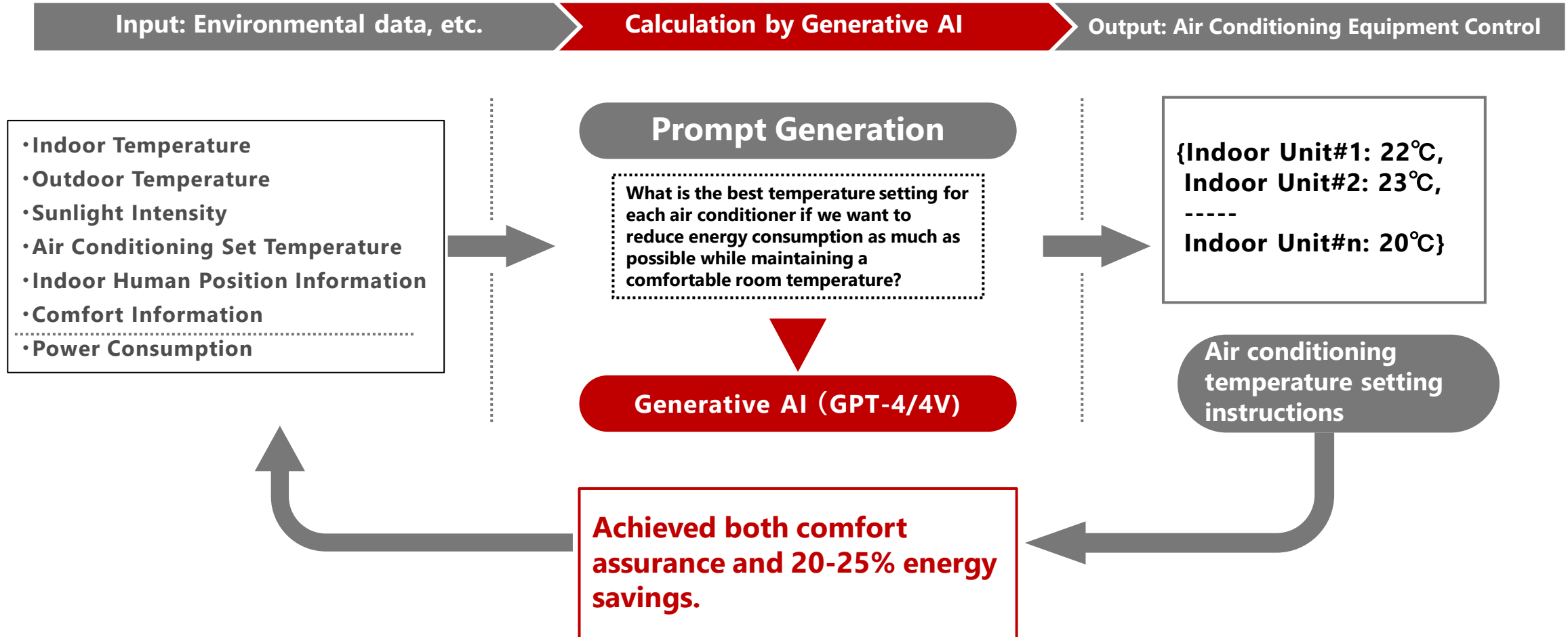
Autonomous delivery robots transport food and beverages from nearby shops directly to the people in buildings. By implementing this service, we will provide enhanced convenience for the people in buildings, increase the value for the tenant shops, and improve the overall value of the building, including its surrounding facilities.

### Service image



# Scrum Project Case Study (Application of Generative AI to Equipment Control) 3. Scrum project examples

We verified the effectiveness of generative AI technology for air conditioning automation that balances comfort and energy efficiency.

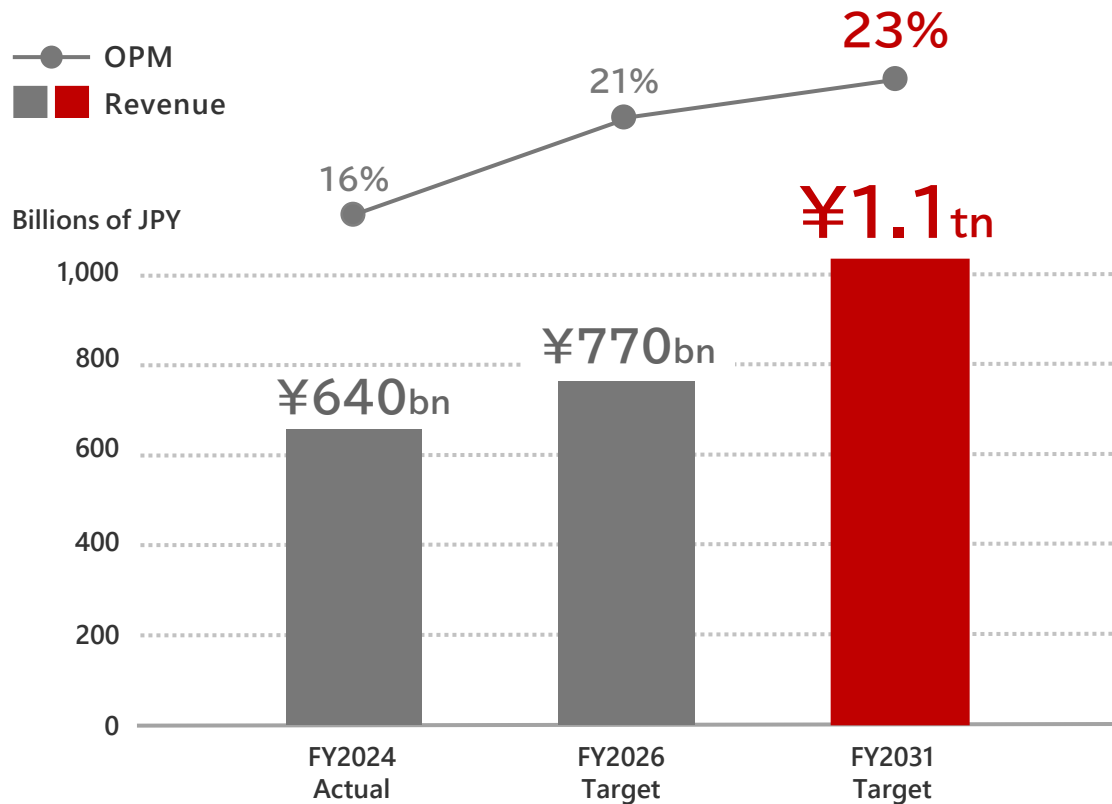


# 4

## Serendie-related Businesses



Establish a new earnings pillar by accelerating initiatives to create new value and expanding profitability for Serendie-related businesses



### Serendie-related businesses

Serendie-related businesses defined as solutions utilizing data and components collecting data

#### Solutions utilizing data

Integrated solutions, solutions utilizing data from Mitsubishi Electric equipment and systems, remote monitoring/maintenance services

- E&F Solution business\*1
- Remote services for processing equipment and numerical control device
- Remote monitoring and maintenance services for elevators etc.

#### Components collecting data

Components with functions for collecting/transmitting data essential for providing solutions utilizing data

- Sequencers
- CNC\*2 etc.



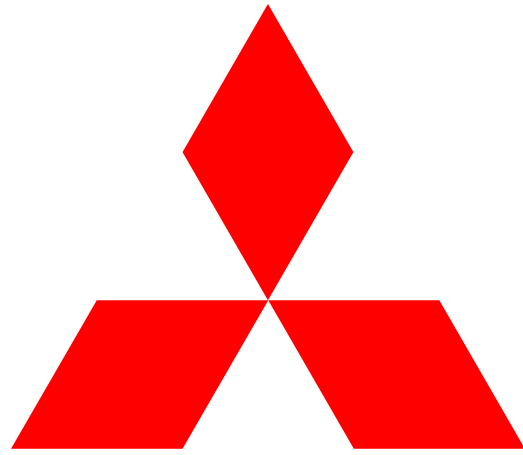
\*1 Solutions service solving energy management and facility management issues together \*2 CNC: Computerized Numerical Controller

## Cautionary Statement

While the statements herein, including the forecasts regarding the Mitsubishi Electric Group, are based on assumptions considered to be reasonable under the circumstances on the date of announcement, actual results may differ significantly from forecasts. The main factors materially affecting the expectations expressed herein include but are not limited to the following:

1. Changes in worldwide economic and social conditions, as well as regulations, taxation and other legislation
2. Changes in foreign currency exchange rates
3. Changes in stock markets
4. Changes in the fund-raising environment
5. Changes in the supply and demand of products, as well as the material procurement environment
6. Establishment of important patents, status of significant licenses and disputes related to key patents
7. Litigation and other legal proceedings
8. Issues related to quality and defects in products or services
9. Laws, regulations and issues related to the global environment, especially responses to climate change
10. Laws, regulations and issues related to human rights
11. Radical technological innovation, as well as the development, manufacturing and time-to-market of products using new technology
12. Business restructuring
13. Information security incidents
14. Large-scale disasters, including earthquakes, tsunamis, typhoons, volcanic eruptions and fires
15. Social, economic and political upheaval due to heightened geopolitical risks, war, conflict, terrorism or other factors
16. Social, economic and political upheaval due to pandemics or other factors
17. Important matters related to Mitsubishi Electric Corporation's directors and executive officers, major shareholders, affiliated companies and other stakeholders

\* This document has been translated from Japanese original for reference purpose only.  
In the event of any discrepancy between this document and the Japanese original, the original shall prevail.



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ELECTRIC**

*Changes for the Better*