

# Medium-term management plan

～Further strengthen the data acquisition base and forge open alliances～

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Medical Data Vision Co., Ltd.

(Code: 3902)

November 14, 2022

# Management philosophy and Our vision

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## A consistent philosophy and unwavering character

### Our goal

Our goal is to innovate in the medical and healthcare fields in Japan to create benefits for everyone in daily life.

### Our mission

Our mission is to facilitate the effective utilization of data by promoting shifts to ICT in the medical and healthcare fields.

### Our pledges

#### —To everyone involved in medicine and healthcare—

We aim to develop by solving issues always from the perspective of healthcare professionals.

#### —To our colleagues—

We are all key actors rather than bystanders. We welcome constructive dialog with colleagues regardless of position.

### Our values

#### 「Open and honest」

We are committed to being “open and honest” in our business activities at all times, in all situations, and with all stakeholders.

## We are starting up new businesses to solve social issues

Issue recognition at the time of startup is part of the solution and also a social issue that aligns with the ESG trend

### Startup motivations and our societal vision

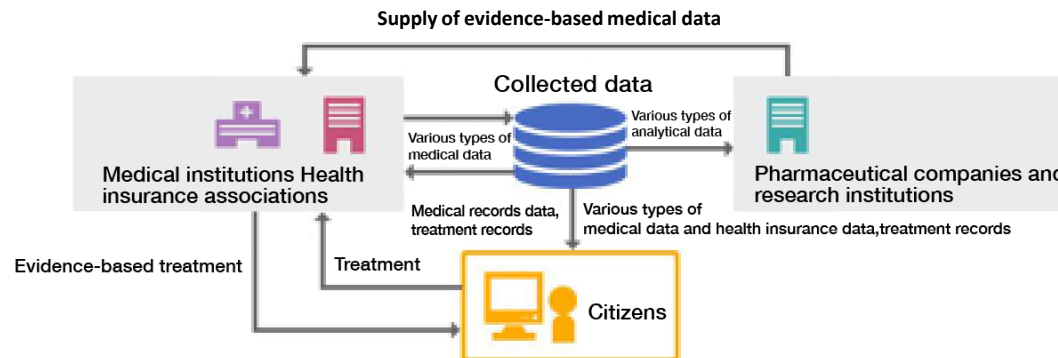
#### Issue recognition that acted as motivation for startups

- ▶ Slow progress in the shift to ICT in medical and healthcare data and lack of ICT usage
- ▶ Citizens' lack of understanding of their own lifetime medical and healthcare data

#### Our societal vision

A society where individuals can track and understand their whole medical and healthcare data (lifetime data)

A society where one individual can select the necessary medical and healthcare services based on one's lifetime data



Creating a PHR society ▾



A reliable database that allows citizens to ▾

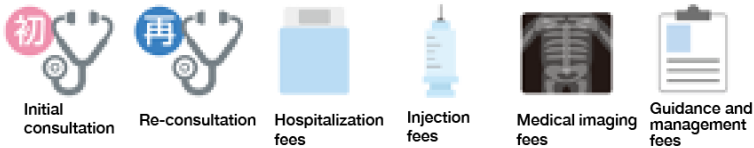
Source: MDV's growth prospects at time of listing

# Why did we begin by supporting hospital management?

## In order to secure the “trust” of the only source of medical data

Support for hospital management under the DPC system to contribute to high-quality medicine and profitable operations

Medical remuneration is decided by the government, not by institutions themselves



The various types of medical procedures that make up medical fees are equivalent to sales

Two methods of calculating medical remuneration

Usage-based system

Issues with the usage-based system

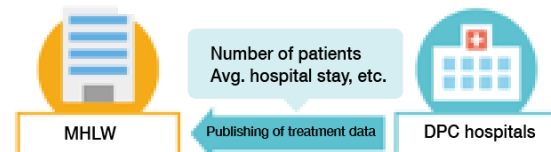
Leads to over-testing and longer hospital stays  
Increases medical fees, etc.

DPC system  
(inclusive payment system)

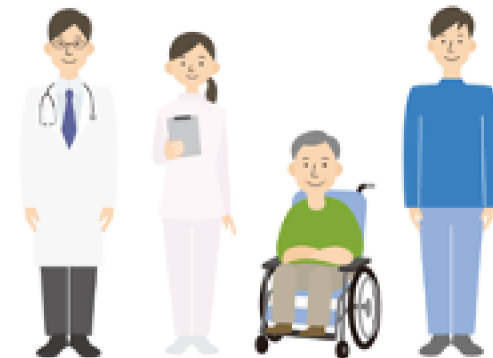
Diagnosis Procedure Combination  
Per-Diem Payment System

Promotes medical efficiency and standardization

Contribute to “high-quality medicine” and “profitable operations” under the DPC system



Contribute to “high-quality medicine” and “profitable operations” under the DPC system

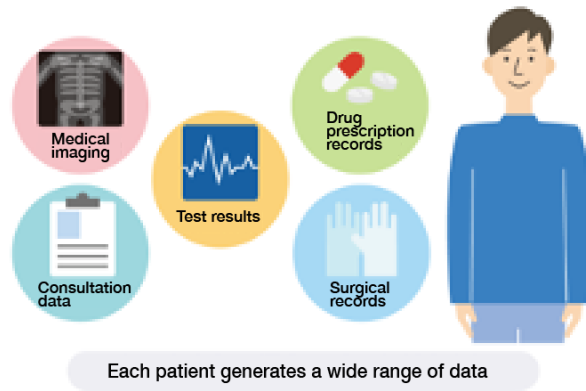


Expedite return to society, reduce hospitalization fees and stays

# Returning the results of clinical data analysis to pharmaceutical companies and others

Medical big data is essential to evidence-based medicine (EBM)

DPC data collected on 41.20m patients **far exceeds that of any other company**

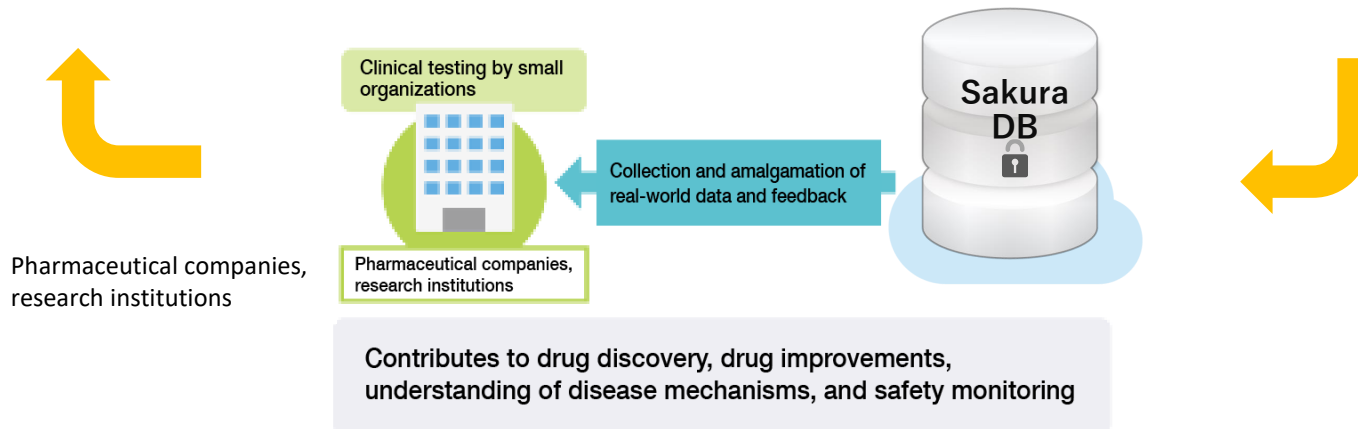


## Receipt data

When a patient undergoes a medical procedure, the receipt contains data on the treatment start date and treatment details when payment of medical fees other than those made by the patient themselves at checkout is requested of a paying institution.

## DPC data

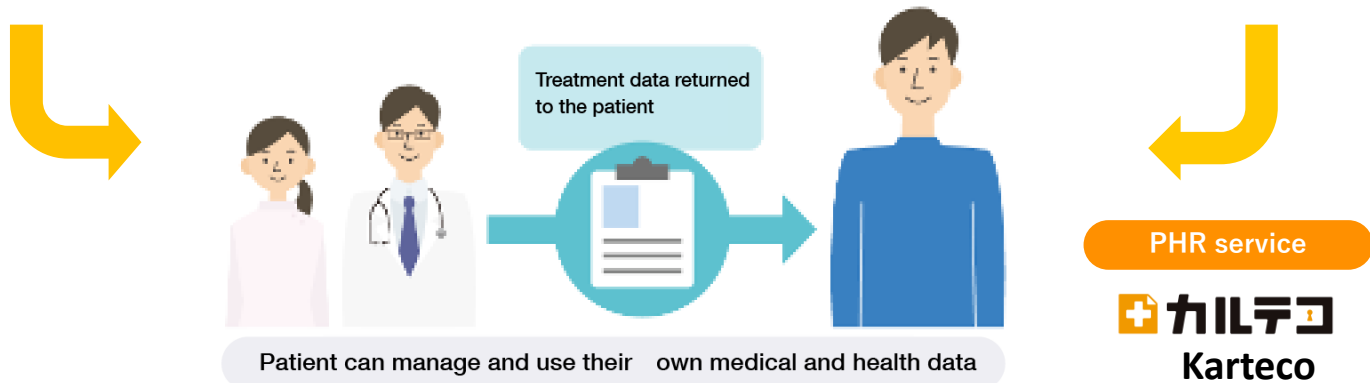
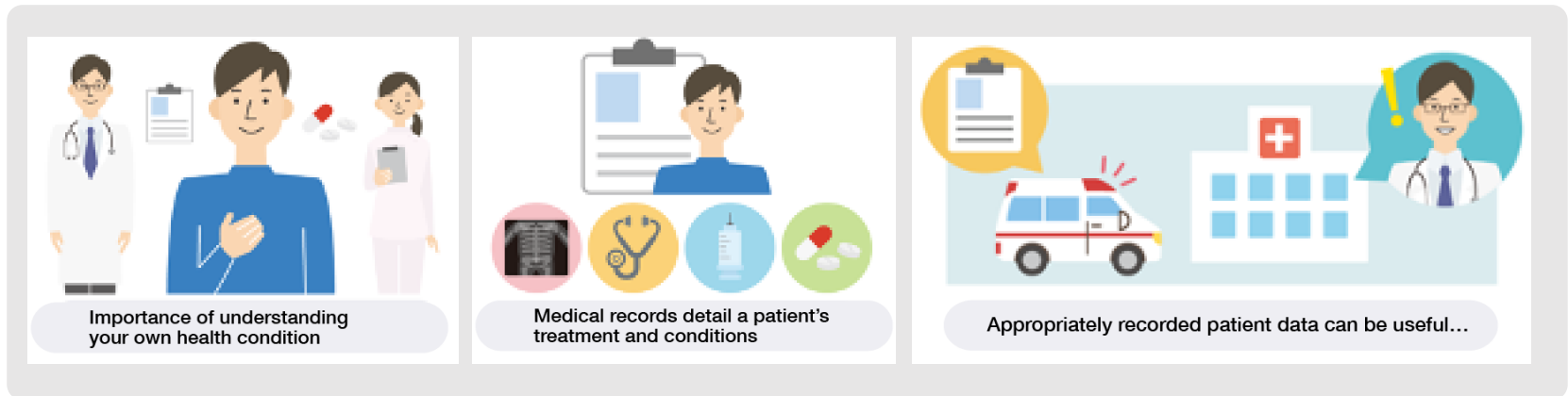
DPC data is data compiled by DPC hospitals under the system introduced by the MHLW in 2003. As the data format conforms to a national standard, **receipt data are much more detailed.**



# We believe treatment data should be returned to the patient

To aid independent medical decision making and the creation of a society in which patients can select their own treatment

Toward self-management of medical and health data and a society in which this data is used



# MDV Group's newly established vision

## Redefining the kind of society we are aiming for

MDV Group is aiming to create the society shown below

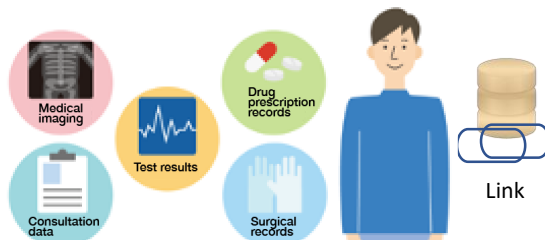
### MDV Group vision

### We aim to use data to create the following kind of society:

A society where individuals can track and understand their whole medical and healthcare data (lifetime data)

A society where one individual can select the necessary medical and healthcare services based on one's lifetime data

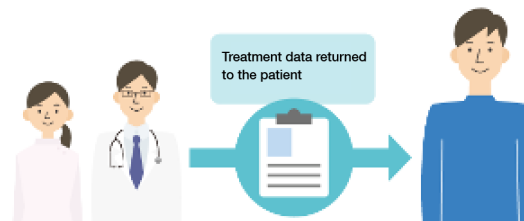
#### Accumulation of medical big data



Each patient generates a wide range of data

EBM

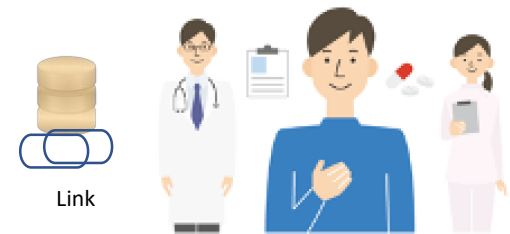
#### Returning medical data to the patient



Patient can manage and use their own medical and health data

PHR

#### Patient-driven treatment grounded in EBM



Importance of understanding your own health condition

Preventative medicine



# Themes of the medium-term management plan

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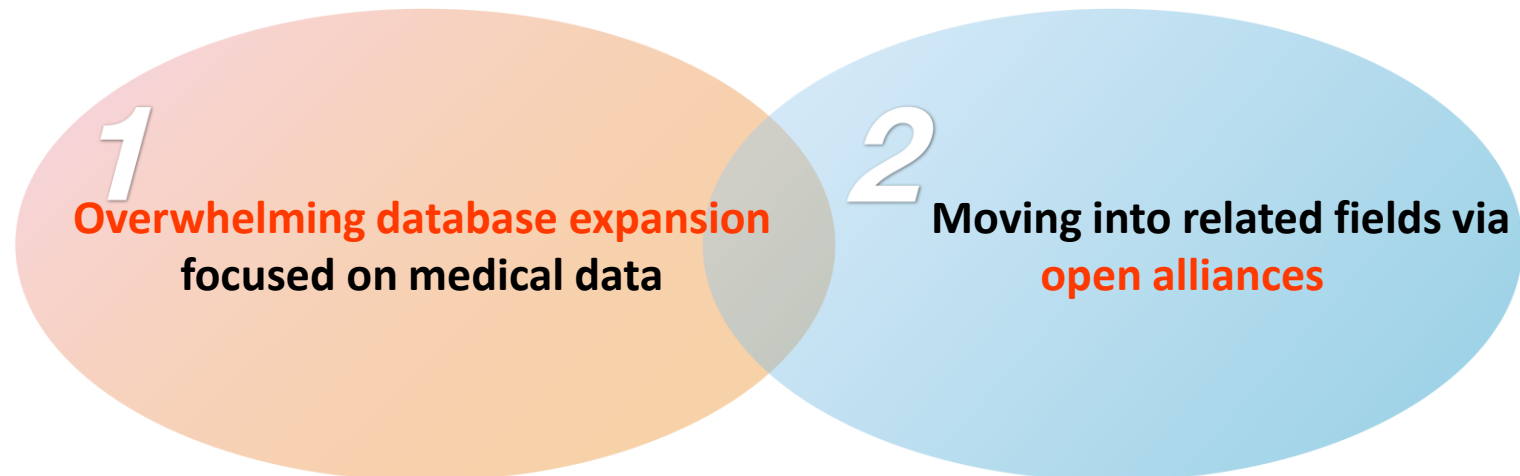


# Two themes for MDV toward 2025

## Further strengthen the data acquisition base and forge open alliances

We believe alliances are the best way to achieve speed that matches change in social conditions

We need to maintain robust foundations to make ourselves an attractive alliance partner



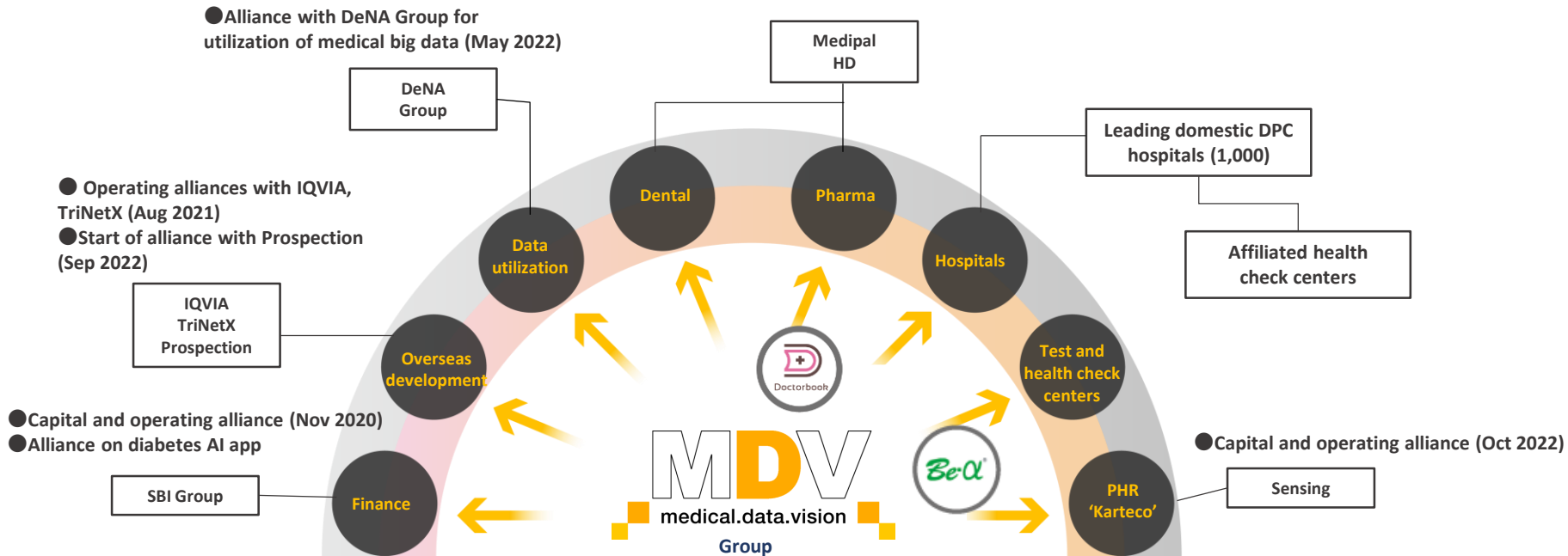
# What is our open alliance strategy?

**We aim to form open links rather than holding internally**

Creating win-win relationships through alliances with outside groups in a variety of industries

## Data alliances in the medical and healthcare fields

- Capital and operating alliance
- Investment in DoctorBook and shared business of 'Clinical Cloud' (Jan 2019)



# Our strong points and Current business opportunities

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We possess the largest domestic stock of high-quality medical data in the rapidly growing medical big data market

## Business conditions

- Valuable **big data (41.2mn patients) being collected** from the Japanese medical frontline
- Aiming to raise medical care quality by **building bonds of trust with major DPC hospitals**
- Alliance with DeNA to create **the largest DB in Japan for insurers data (about 18m patients)**
- Expect further rapid market growth for the data utilization service

## Business model

- A **hybrid model** rooted in marketing capabilities as well as IT
- A **business field with barriers to entry** that are not easy to overcome
- Significant growth potential from expansion into data utilization services

## Earnings structure

- Main business model **has strong profitability**
- Data network service mostly a recurring revenue business, but a mixed recurring and non-recurring business model in data utilization service gives the earnings structure balance

**Raise speed of business development by strengthening alliances**  
**Pursue investment in B2C business to realize our future vision**

	Opportunities	Challenges
<b>Data network service</b>	<ul style="list-style-type: none"><li>• Grow sales partners via shift to cloud</li><li>• Nationwide medical check system sales</li><li>• Room to expand the scope of subsidiary operations</li></ul>	<ul style="list-style-type: none"><li>• Sluggish on-premises services</li><li>• Slow growth in new services</li></ul>
<b>Data utilization service</b>	<ul style="list-style-type: none"><li>• Market expansion, promote awareness of the benefits of data utilization</li><li>• Promote use outside the pharmaceutical sector</li><li>• Acquire largest insurer data stock via alliance with DeNA</li></ul>	<ul style="list-style-type: none"><li>• Maintaining and improving the speed of growth</li><li>• Hire more data analysis staff and expediting training</li></ul>
<b>New businesses</b>	<ul style="list-style-type: none"><li>• Lack of large-scale healthcare DB for citizens</li><li>• Growth prospects for BtoC healthcare business</li><li>• New technologies such as BlockChain, AI</li></ul>	<ul style="list-style-type: none"><li>• Establish business model for BtoC services</li><li>• Accelerate links with SBI Group and others</li></ul>

# Numerical targets of medium-term management plan

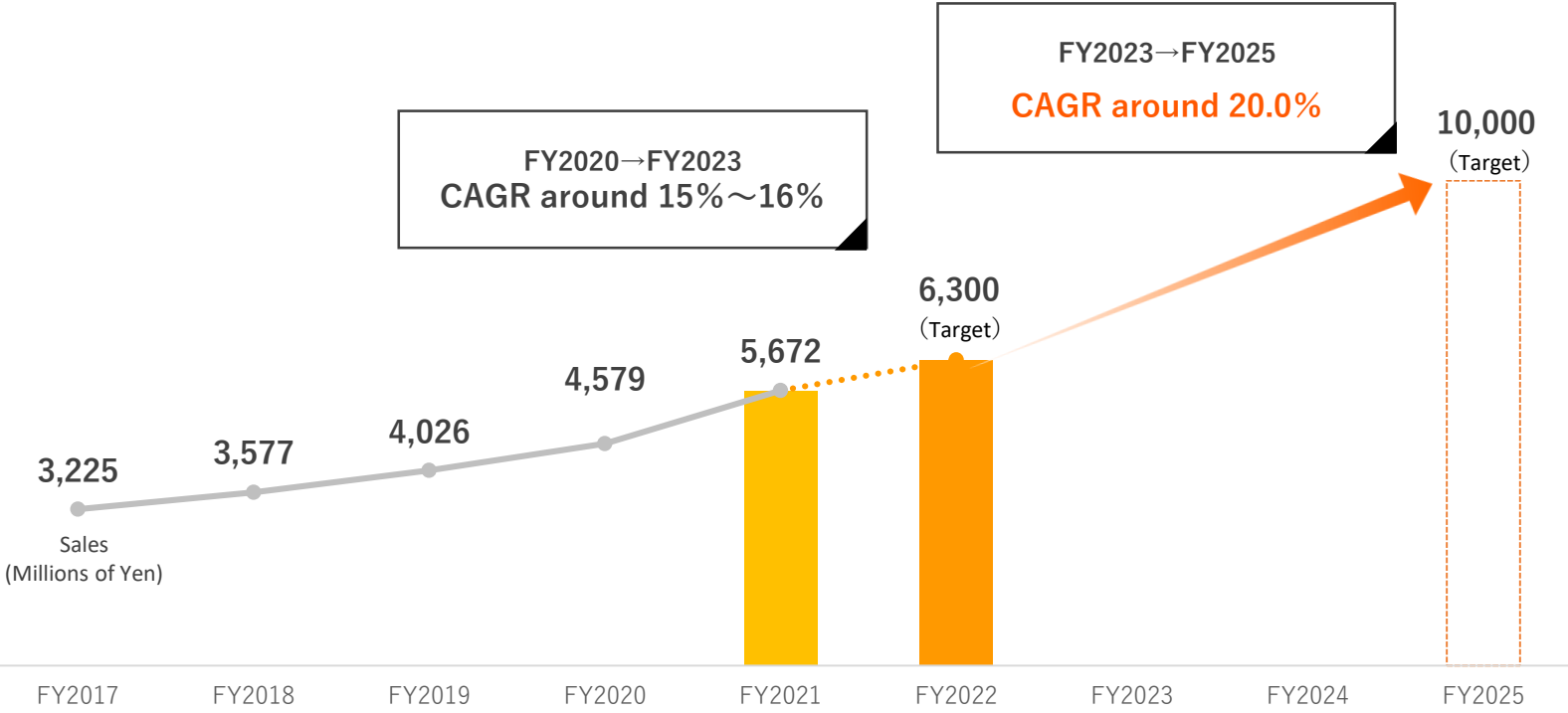
~Already-disclosed targets~

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# FY2025 target sales and CAGR

Aim to accelerate growth through to FY2025 after a period of additional investment in FY2021-FY2023





# Medium-term numerical targets already disclosed

## Numerical targets for 2025 are as below

Targets based on existing or already planned business, possibility of greater performance

FY2025  
Sales

**10** Billion  
yen

FY2025  
Ordinary  
Income

**2.5** Billion  
yen  
or more

Management targets that will form the base of the plan

# Changes in service classification

## Some businesses to move from Data network service segment to Others segment

Doctorbook and AIR BIOS subsidiaries to move to Others segment

### Existing service classification

#### Data network service

MDV  
Subsidiaries  
L SB  $\alpha$   
L Doctorbook  
L MDI  
L AIRBIOS

#### Data utilization service

MDV  
MDVTR (data trials)

### Service classification from FY2023

#### Data network service

MDV  
Subsidiaries  
L SB  $\alpha$  (sales of medical check systems)  
L MDI (sales of remuneration support systems)

#### Data utilization service

MDV (inc. data trials business)

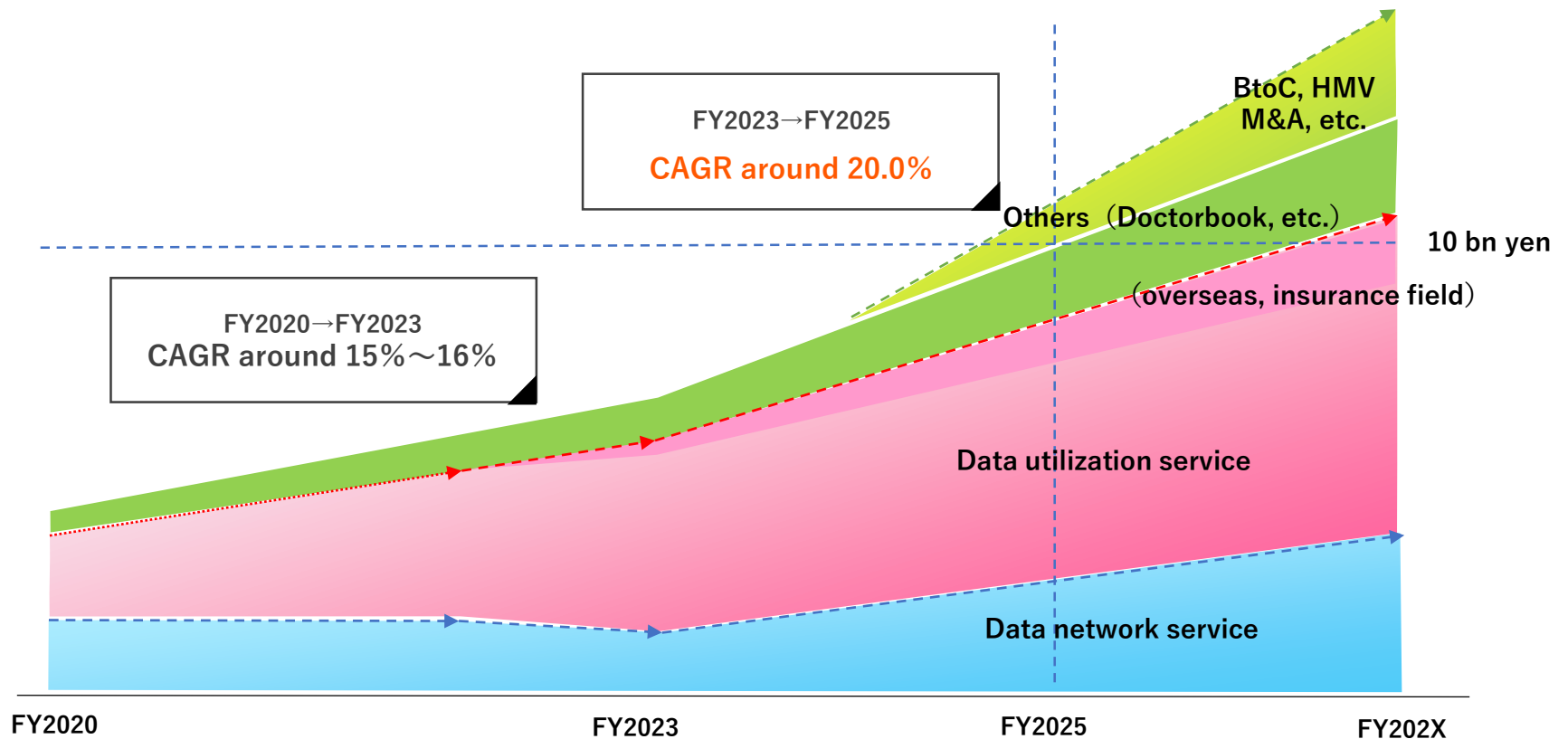
#### Others

Doctorbook (runs medical info video and data site)  
AIRBIOS (cancer screening, etc.)  
B2C-related business (inc. HMV business)  
Others

# Target 2025 sales of 10bn yen in existing businesses

## Aim to acquire revenue base to bolster growth business of data utilization service

Expect temporary fall in sales in data network service during shift to cloud  
Current medium-term plan does not include sales from areas such as B2C, HMV



# Strategies to achieve medium-term plan

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## Three strategies to achieve 2025 sales of 10bn yen

Cloud shift and growth in medical check sales, maintain share of EBM market, invest in healthcare B2C

1

**Customers: hospitals and affiliated health check centers, private clinics focused on health checks**

Expand base of data mainly on cloud and maintain market share

✓ Promote sales of medical check systems, accelerate data links with 'Karteco'

2

**Customers: pharmaceutical makers, insurers, and other companies using data**

Maintain share of expanding medical big data analytic services market

✓ Strengthen sales of Japan's largest insurers DB and forge new alliances

3

**Customers: alliance partners in the healthcare sector and general consumers**

Upfront investment in B2C to feed into MDV growth from 2025

✓ Invest in healthcare B2C as a promising growth market

# Merging of vision and strategies

## Strategies through 2025 are in keeping with previous measures

10bn yen in sales from existing businesses achievable,  
laying the foundations for future growth in other fields

	<b>Data network service</b>	<b>Data utilization service</b>	<b>Others (B2C, etc.)</b>
<b>Strategic target</b>	Build bonds of trust with hospitals Gain understanding on data supply	Data accumulation and usage	Return medical data to patients Use in preventative medicine
<b>Market size</b>	Small (≒ no. of hospitals)	Medium (growing market)	Large (whole healthcare sector)
<b>Earnings model type</b>	<b>【Stable】</b> Costs for support, etc. Secure funds for company base	<b>【High-earning】</b> Few installation costs Source of high margins	<b>【Upfront investment】</b> Needs upfront investment Share → rapid sales growth
<b>Moves for 2025</b>	Pursue shift to cloud Grow medical check system sales and maintain share	Maintain share of growing market Sales from overseas, insurance field	Upfront investment for new growth Create healthcare infrastructure

1

Customers: hospitals and affiliated health check centers, private clinics focused on health checks

Expand base of data mainly on cloud and maintain market share

✓ Promote sales of medical check systems, accelerate data links with 'Karteco'

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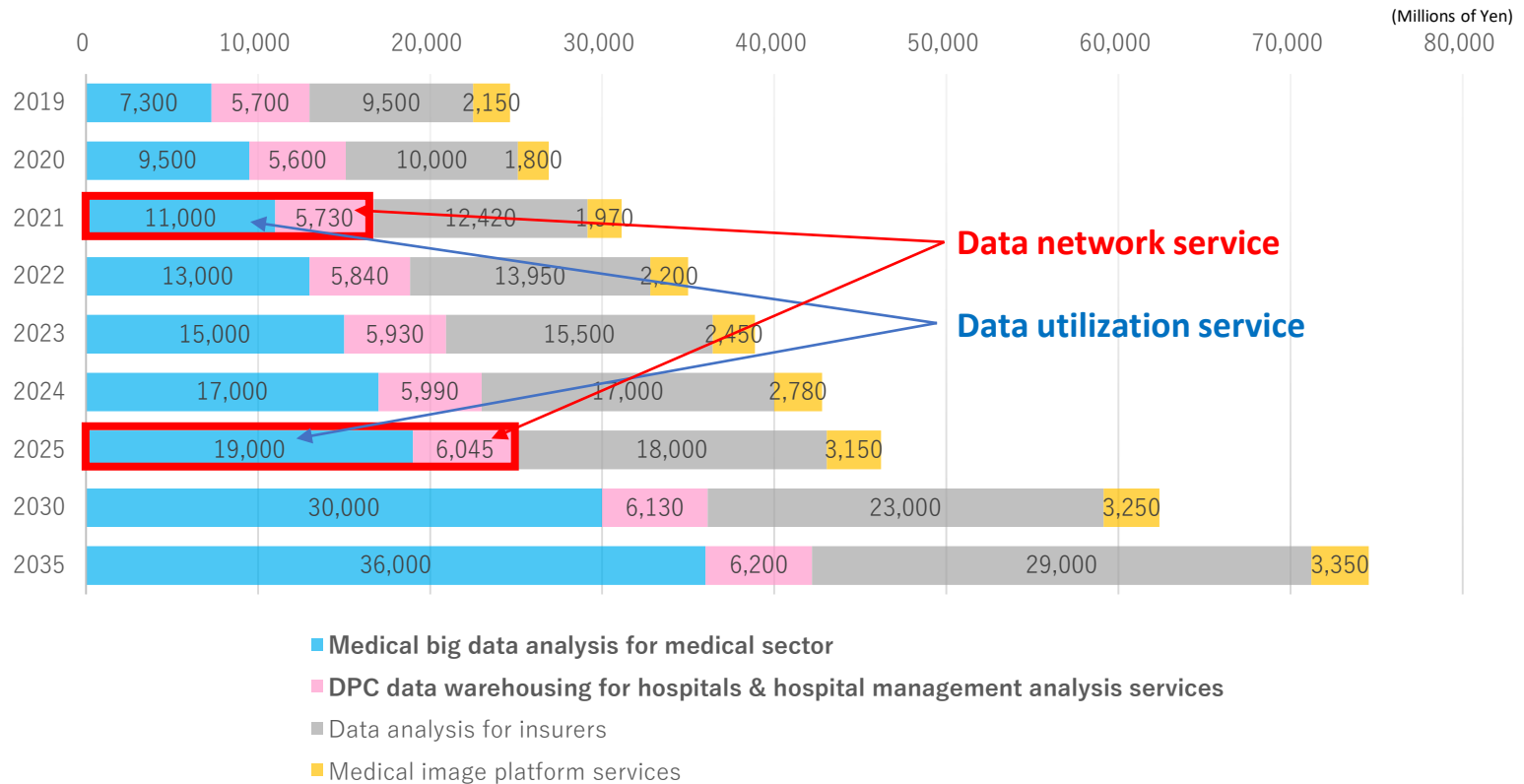
~Market trends in data network service~

# Size of medical big data market\_Fuji Keizai estimate

Markets for MDV's current business fields to grow to 25bn yen in 2025

MDV Group aims to secure at least a 40% share of these markets

## MEDICAL BIG DATA ANALYTICAL SERVICES



Source: "Current state and future prospects for medical AI and medical big data markets, 2022" Fuji Keizai Group

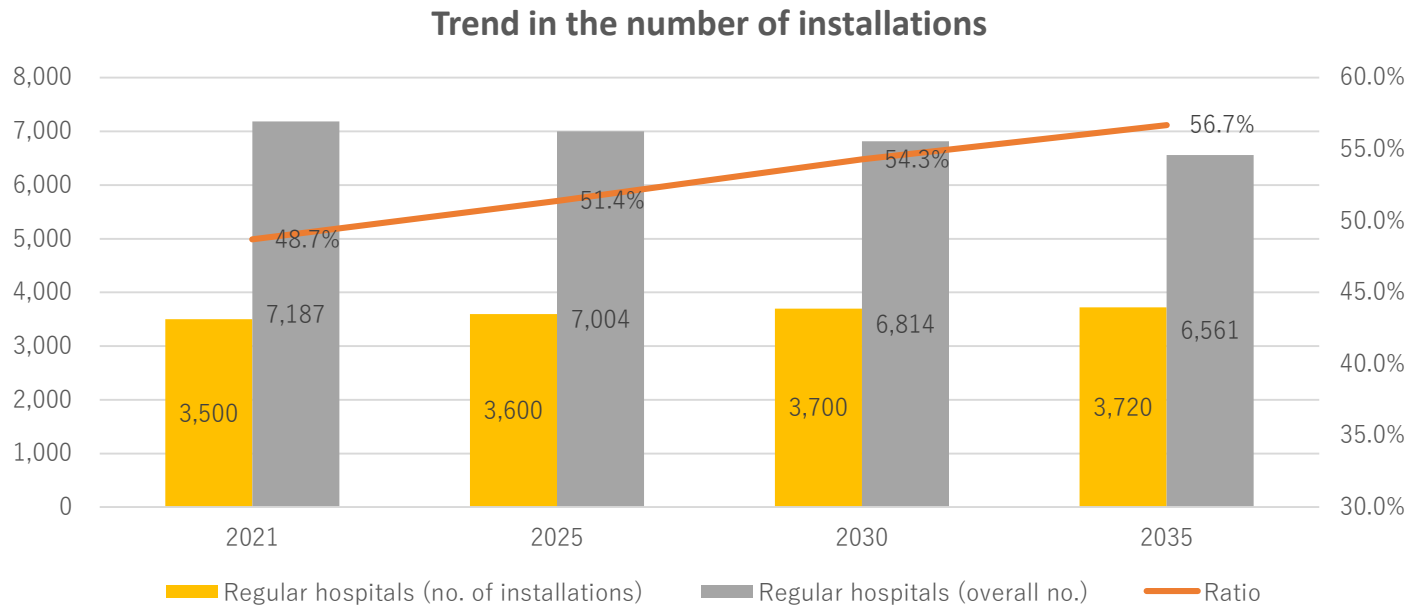


# Growth prospects for data network field

## Market base of number of hospitals expected to gradually contract

Rapid shift from on-premises to cloud, aim to maintain **overall 30% share**

Particularly targeting steady **40-50% share** for DPC hospitals



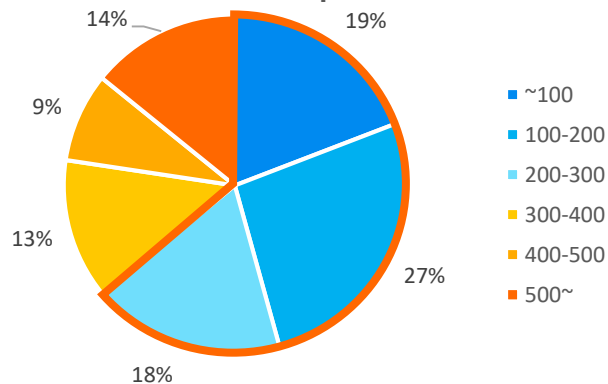
Source: "Current state and future prospects for medical AI and medical big data markets, 2022" Fuji Keizai Group

# Growth prospects for 'EVE' & MC fields

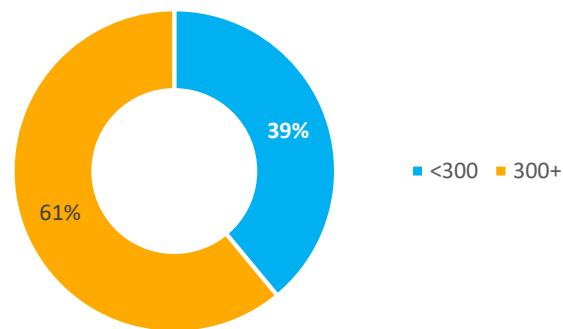
Maintaining share key amid limited market growth prospects

Installation headroom at hospitals with less than 300 beds, which account for more than 60% of total

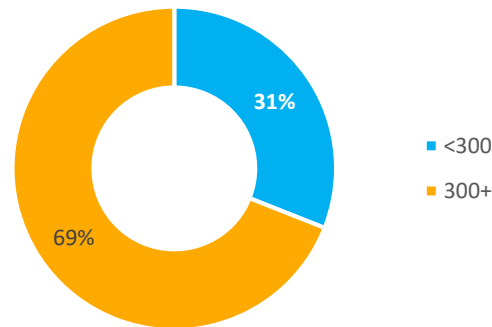
Ratio of DPC hospitals by number of beds (Apr 2022)



Existing 'EVE' contracts by number of hospital beds (MDV)



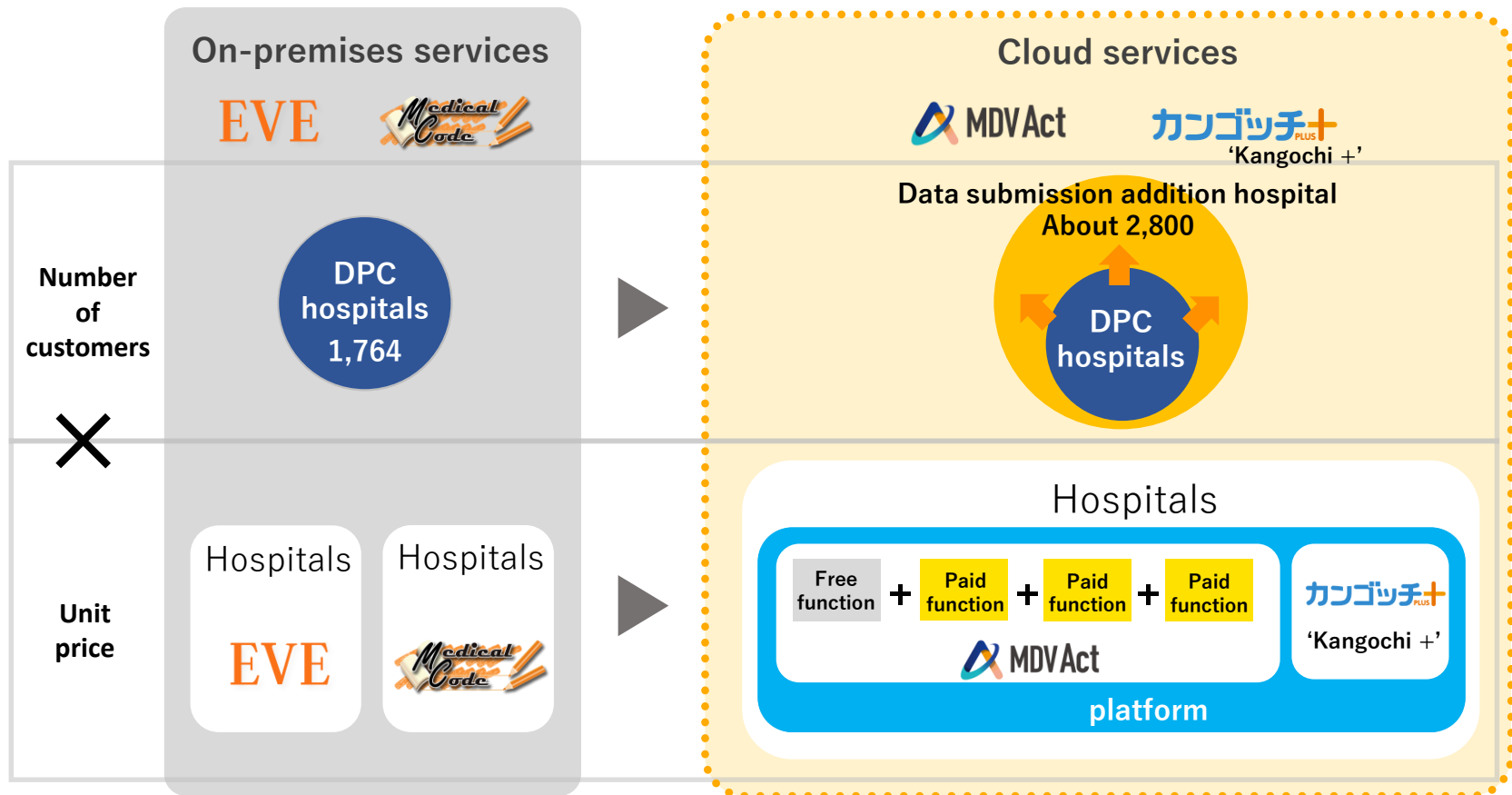
Existing MC contracts by number of hospital beds (MDV)



# Pursue a shift to cloud operations focused around 'MDV Act'

**Benefits of shift to cloud = 「expanded customer base」 and 「cross-selling」**

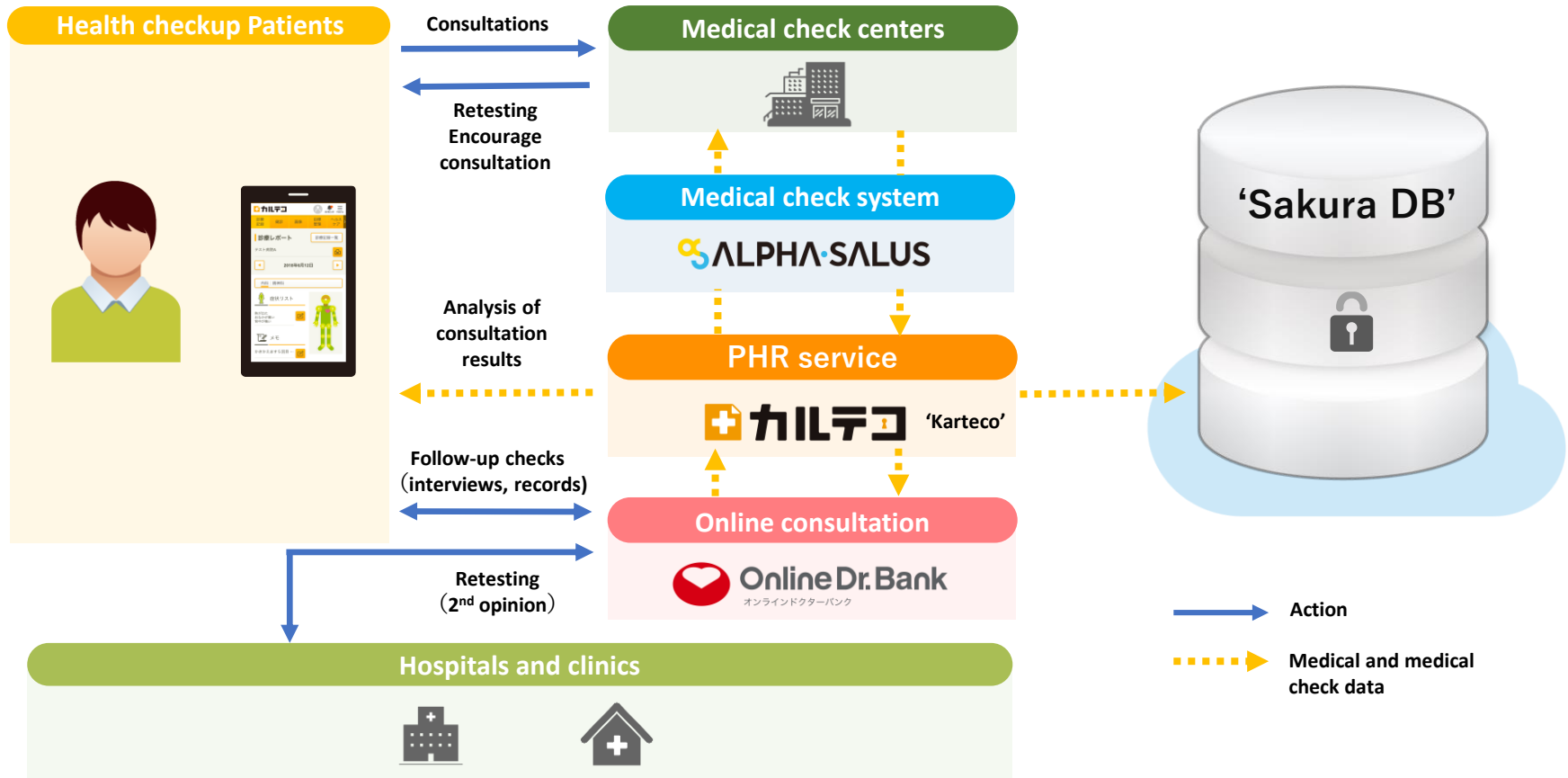
Initial widening of scope to data submission addition hospitals, target cross-selling when paid functionality is launched



# Expand sales of cloud-based medical check systems and 'Karteco'

Merging of trends in medical checks to be another source of earnings for data network service

Organic linkage between 42.10mn-patient DCP data and health check data



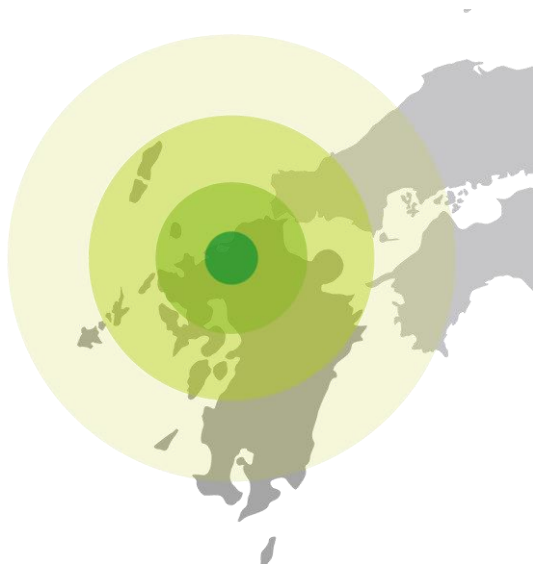
# Growth prospects for medical check systems

**Annual installations of around 100 at the more than 600 medical check centers within MDV's business area**

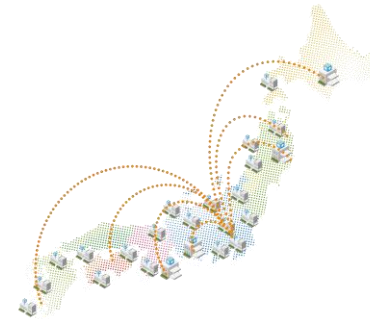
Most installations at centers affiliated to the large hospitals that are MDV'S main customers

SB α based in Kyushu, considerable scope for nationwide expansion

■ SB α's service development mainly in Kyushu



■ One of MDV's strengths is its strong network with medical institutions nationwide



■ Medical centers with scale attached to large hospitals



Hospitals



Medical check centers

# KPI for data network service (2025)

Acquire and maintain more than 「1,200」 hospitals using cloud services

Target for installations of cloud medical check systems 「300」

Indicators	FY2019 Results	FY2020 Results	FY2021 Results	3Q FY2022 Results	FY2022 Targets	FY2025 Targets
<b>No. of hospitals using cloud services</b>	–	–	–	897	1,000	<b>1,200 ~1,500</b>
No. of hospitals using 'MDV Act'		–	558	863	1,000	1,200
No. of hospitals using 'Alpha Salus ' cloud medical check system	–	–	–	–	–	300

2

Customers: pharmaceutical makers, insurers, and other companies using data

Maintain share of expanding medical big data analytic services market

✓ Strengthen sales of Japan's largest insurers DB and forge new alliances

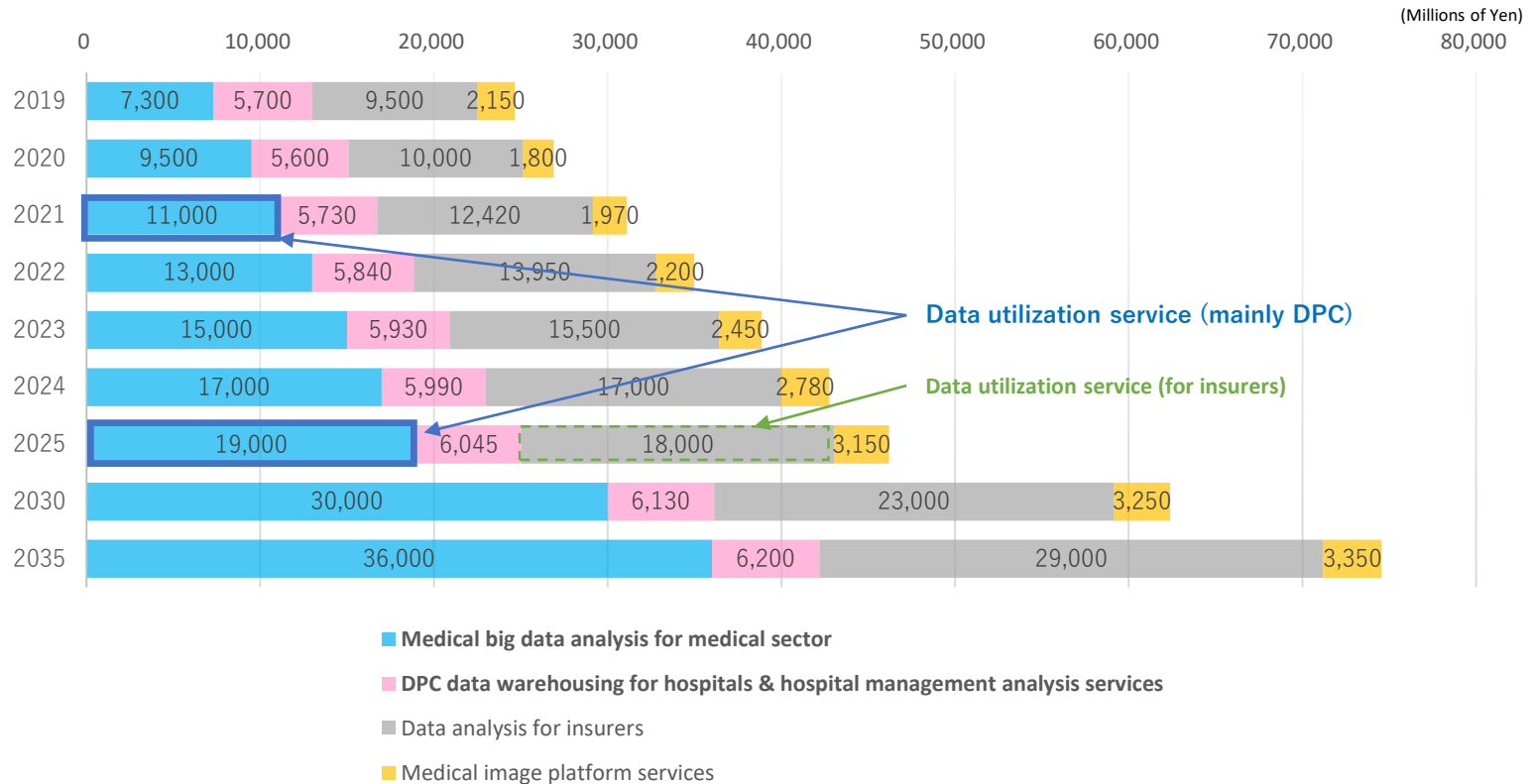
~Market trends in data utilization service~

# Growth prospects for data utilization service

Target **acquisition of 30-40%のshare** of medical big data analytical services market

Challenge rivals in data analysis services market for insurers through “alliances”

## MEDICAL BIG DATA ANALYTICAL SERVICES



Source: “Current state and future prospects for medical AI and medical big data markets, 2022” Fuji Keizai Group

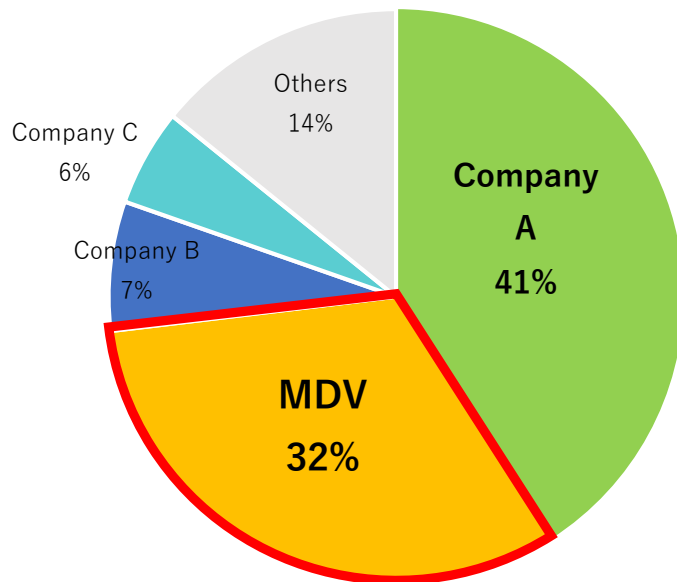


# Market share and competition\_EBM business field

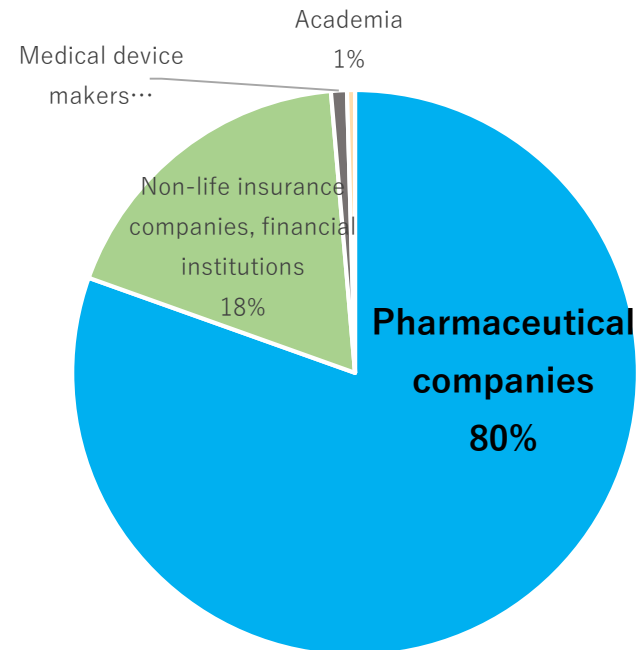
**Company A and MDV the two dominant players in the medical big data analytical services market**

Pharmaceutical companies comprise 80% of the market, MDV has an opportunity to become the market No. 1

Market share in medical big data analytical services for medical sector (by value)



Market by customer



# KPI for data utilization service (2025)

**Secure data utilization service sales CAGR of 「16%+」**

Restructure 'MDV Trial', target **major sales growth** in the data trial field

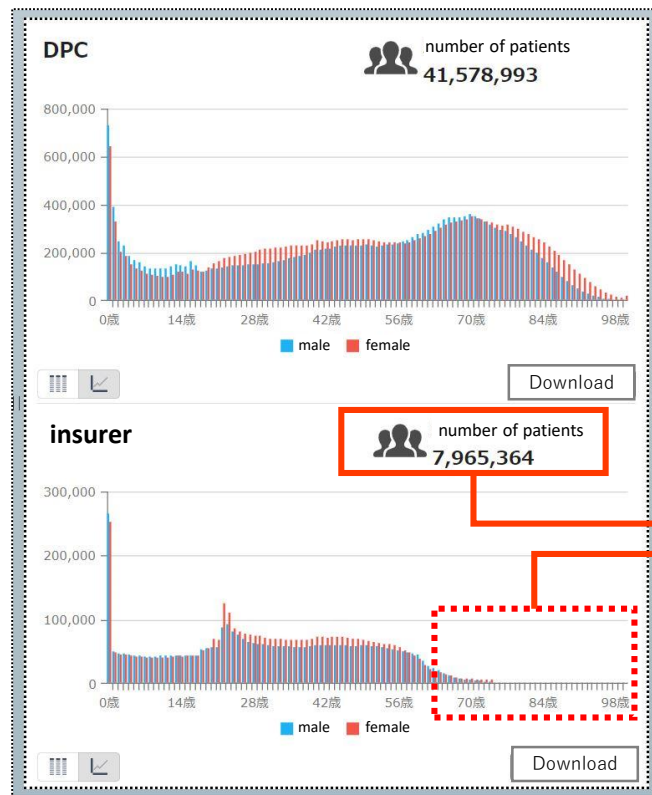
Indicators	FY2019 Results	FY2020 Results	FY2021 Results	3Q FY2022 Results	FY2022 Targets	FY2025 Targets
Sales growth rate in data utilization service segment	19.0%	18.5%	21.3%	15.1%	17.2%	16%+
Sales in the data trial field (mn yen)	73	69	59	30	—	300
No. of patients in MDV large-scale medical database (10,000)	2,984	3,451	3,849	4,120	—	—
No of patients in insurer database (10,000)	—	616	762	1,776	—	—

# Acquire market share in the insurers' data field

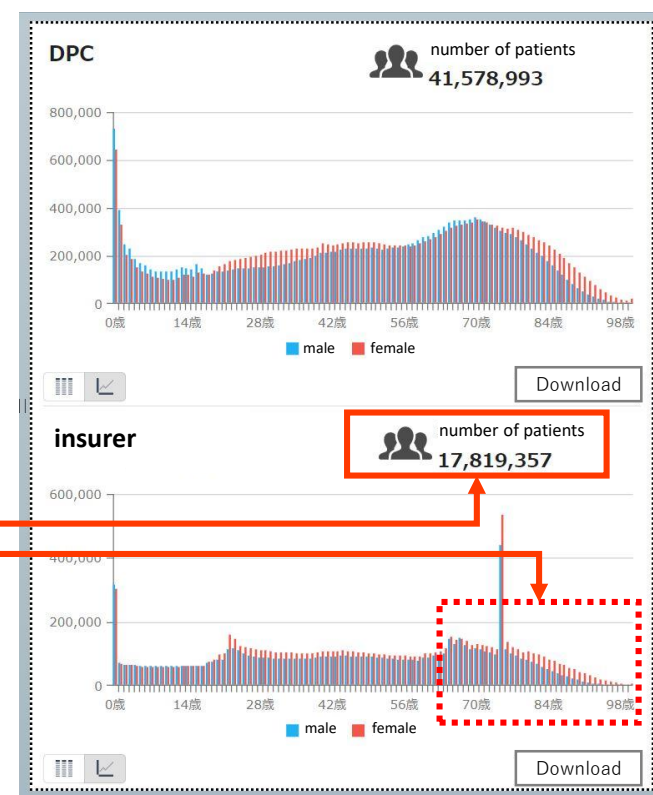
## Swiftly acquire market share in the insurers' data field

Acquire insurers DB containing vital signs data on elderly via alliance with DeNA Group  
Pursue further alliances to consolidate data and improve convenience for customers

Previous 'MDV analyzer'



'MDV analyzer' after DeNA group alliance



3

Customers: alliance partners in the healthcare sector and general consumers

Upfront investment in B2C to feed into MDV growth from 2025

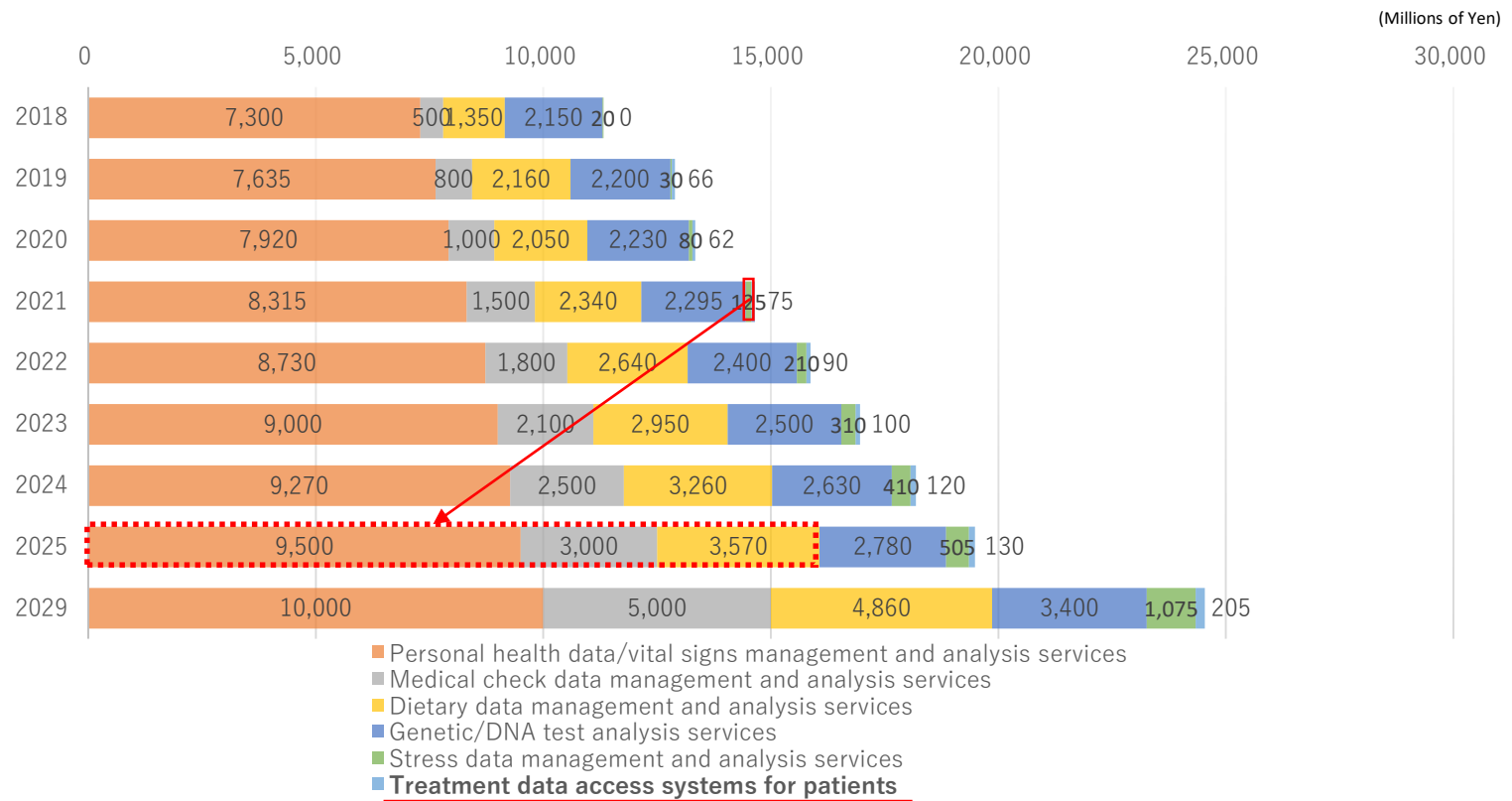
✓ Invest in healthcare B2C as a promising growth market

~Market trends for PHR ('Karteco' field)~

## Redefine 'Karteco', move into preventive medicine and healthcare fields

Pivot to medical check data analysis and vital signs data analysis markets

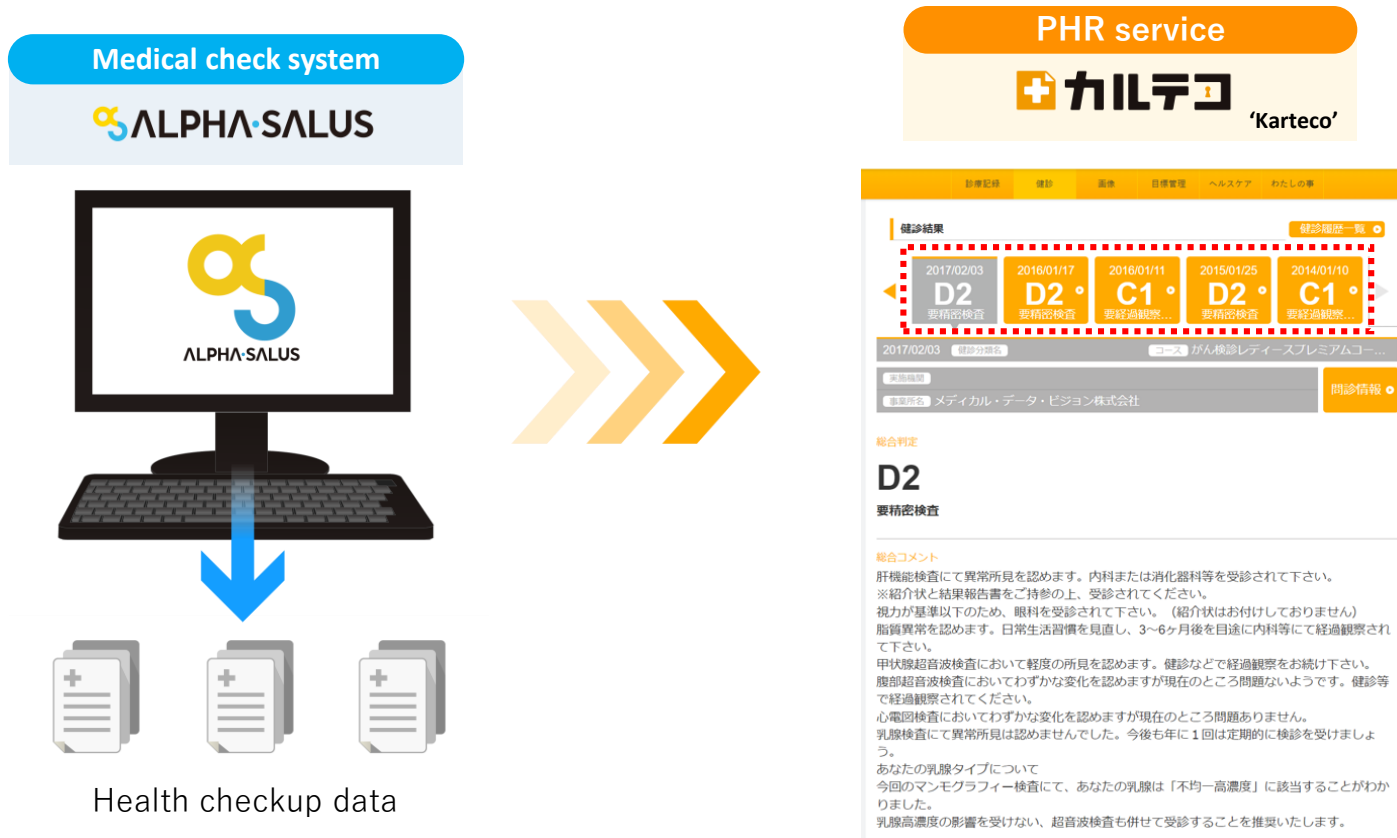
### HEALTH DATA AND PHR MARKET



Source: "Trends in the data health planning, health management, and PHR-related market and cutting-edge health insurance, 2021" Fuji Keizai Group

'Karteco' stores not only medical records, but also health check results

Spread of cloud-based health check system will support growth of 'Karteco'



# Change in our PHR ('Karteco')

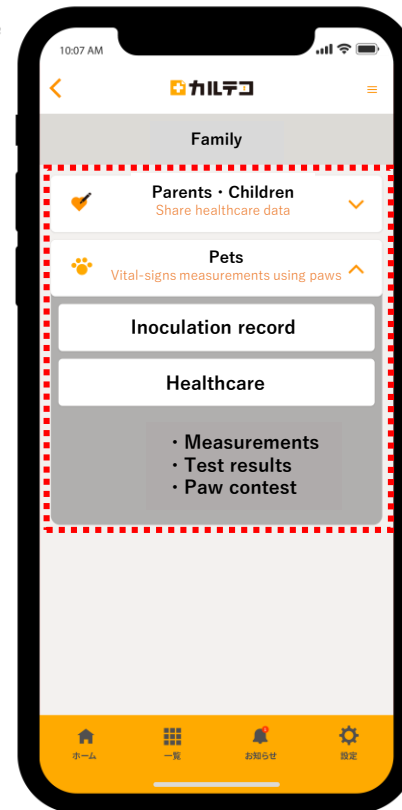
## Expect expansion in PHR, strengthen 'Karteco' functions

Pursue data alliances, move into preventative medicine field using AI and other tools

'Karteco' menu front page sample image



'Family' page sample image



\*New sample images of under-development 'Karteco'

# Businesses not factored into medium-term plan targets

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~Possibility of greater earnings performance~

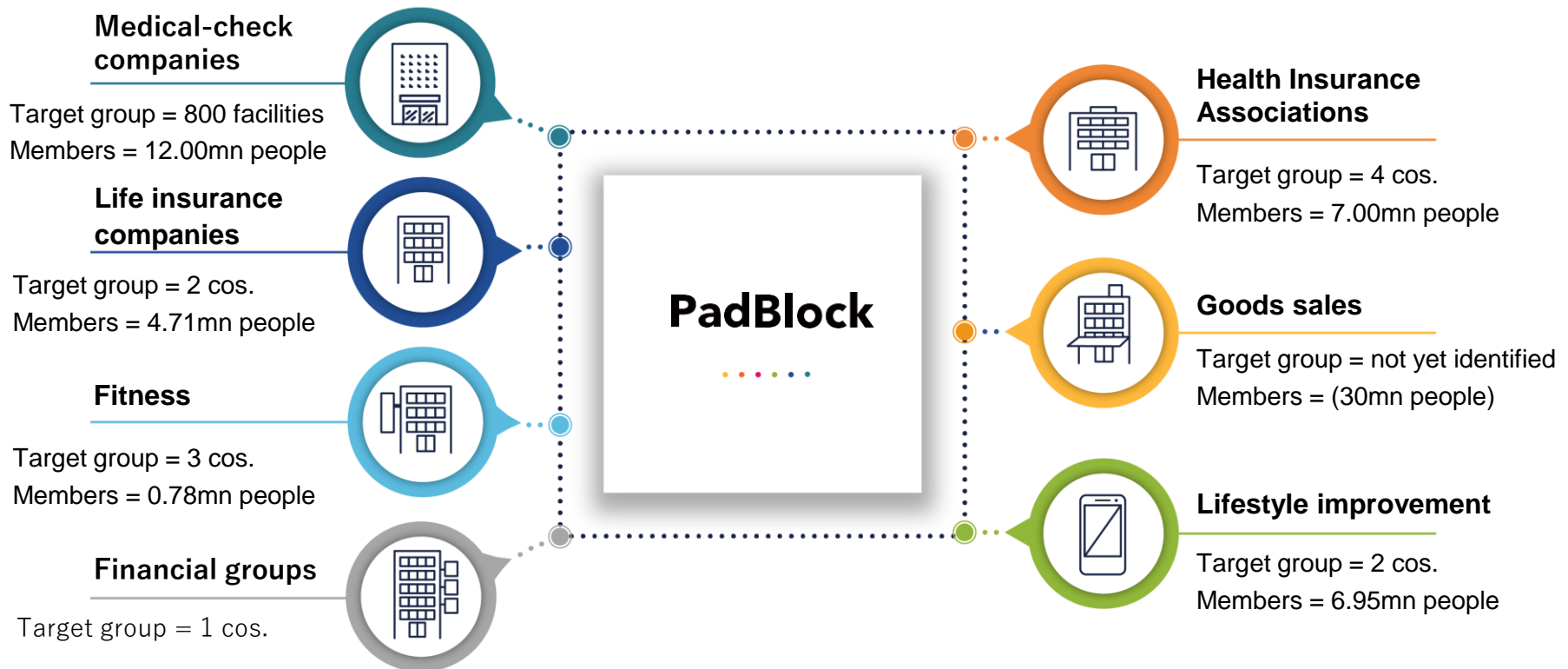


# ① The HVM concept

## Various B2C alliances possible through HVM concept

Creation of healthcare B2C infrastructure would open up possible major revenue stream

Challenge creation of Society5.0 in the healthcare field



## ② Capital and operating alliance with Sensing

### Alliance with a view to applying technology to the healthcare and lifestyle fields

Applying this highly-accurate, contactless vital-signs sensing technology to 'Karteco' too  
Technology received an award in the Mobility segment at the PLUG & PLAY Awards

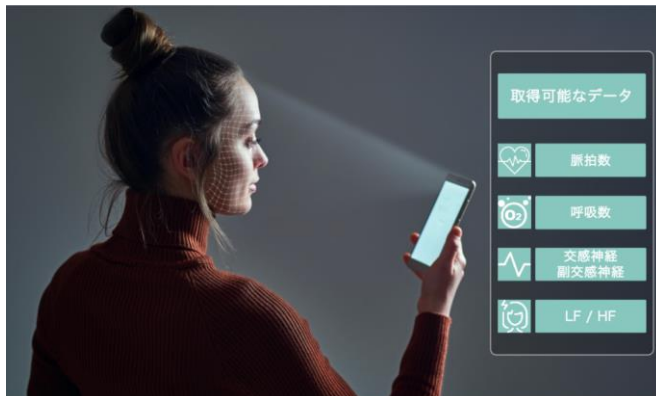
#### Contactless sensing technology that boast high accuracy

##### High accuracy

Contactless vital-signs sensing technology that uses only a camera-equipped handset

##### Competitive advantage

An algorithm that removes shadows to eliminate the impact of light and pigment component separation technology that can measure the pulse very accurately



#### In the spotlight

##### Japan

Participation in the working team promoting the Cabinet Office-led Digital Garden City Nation Concept

##### Overseas

Received an award in the Mobility segment of the world's largest accelerator program <https://sensing-art.com/news/352/>  
Interest from overseas is also high, and participation in this program has led to a surge in inquiries



Japan Summit Summer/Fall 2022 (Online) :

# Various strategies to support achievement of medium-term plan

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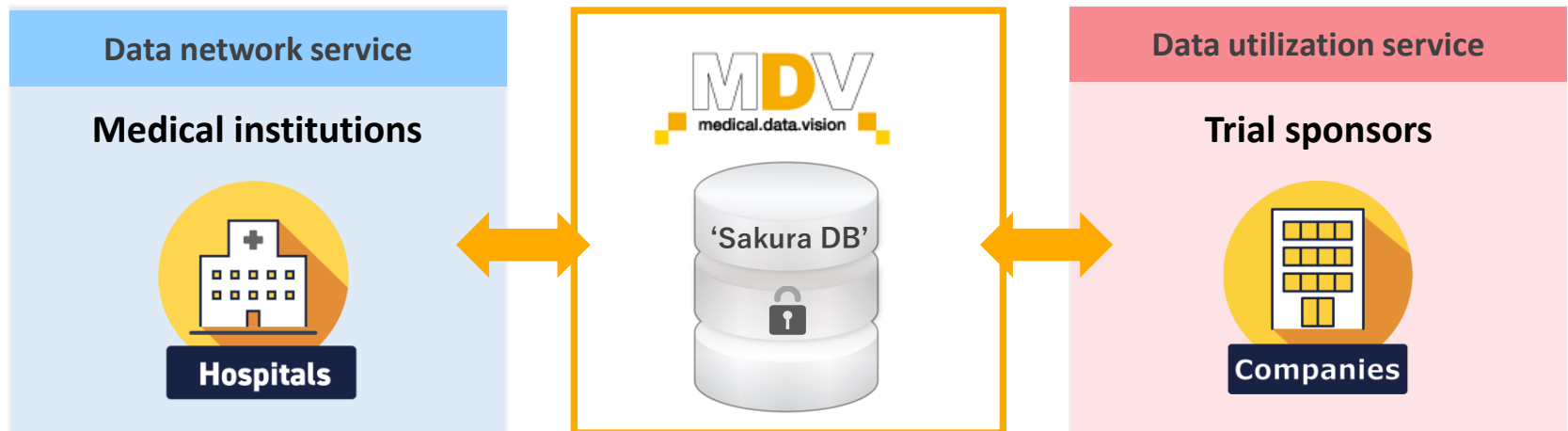


# ① Merging subsidiaries to restructure the data trial field

## Absorption of MDV Trial with the aim of strengthening data trials

Progress on unifying marketing strategies and utilizing human capital

Aim to accelerate data trial business by leveraging concentrated business resources



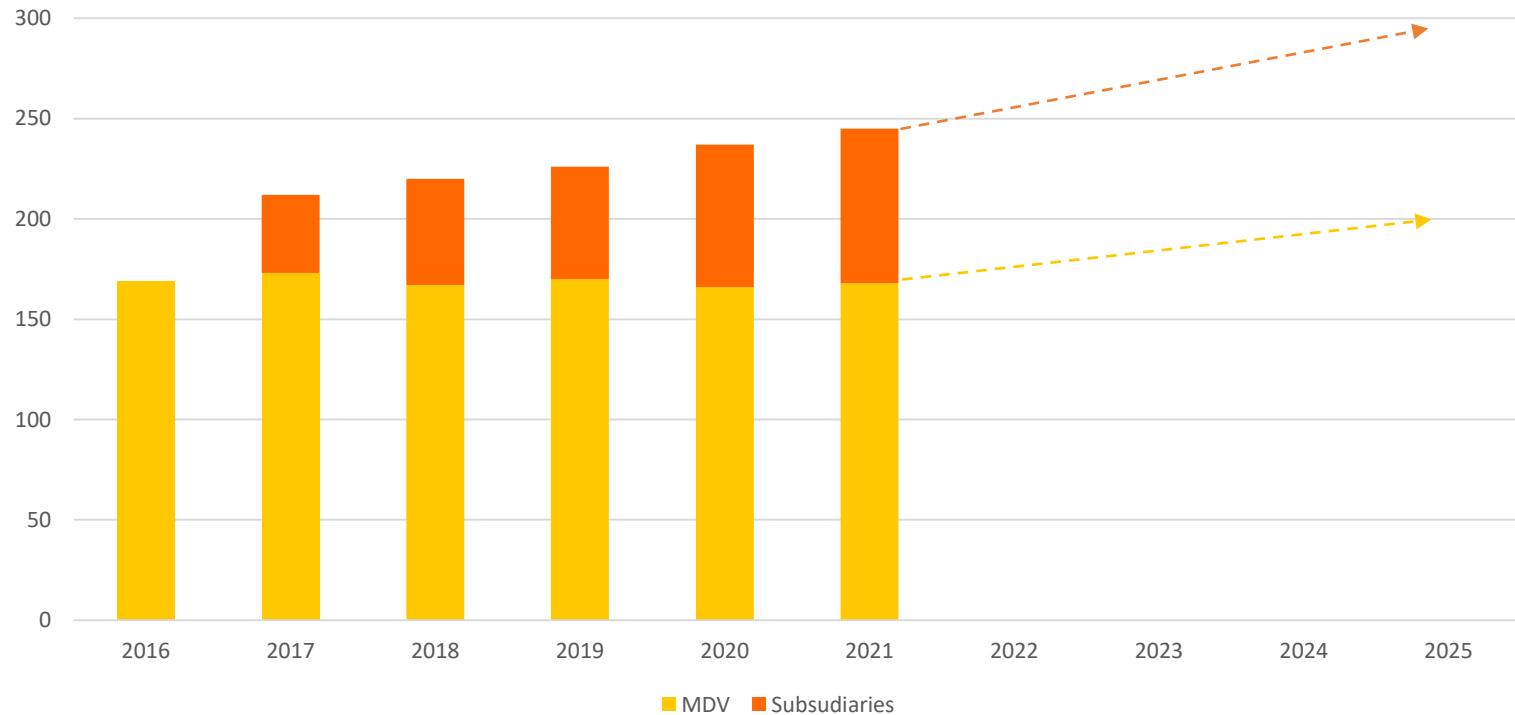
Maximizing use of MDV's customer base, trust relationships, and marketing power

## ② Hiring personnel and investing in human capital

### Investment in human capital essential in order to grow earnings

Aim to increase headcount by 20-30 a year in 2023-2025

At the same time invest in and utilize human resources regardless of nationality, sexuality, or age



### ③ R&D investment

## Estimate Group R&D spending at 5-8% of sales

Plan investment for 'MDV Act' and medical check systems in 2023-2024

Will actively consider taking minor investment stakes with a view to alliances

Breakdown of R&D costs	FY2021 (Result)	FY2022 (Target)	~FY2025
Existing businesses (inc. EBM function development, 'MDV Act', 'Alpha Salus')	216	125	—
HMV business (inc. AI block chain platform, diabetes AI)	99	167	—
Others (inc. new businesses, contingency funds)	0	132	—
<b>Total</b>	<b>316</b>	<b>425</b>	<b>500~800</b>
Sales	5,672	6,300	~10,000
R&D expenses to sales ratio (%)	5.6%	6.7%	5-8%

# Summary

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## Medium-term plan themes: further strengthen the data acquisition base and forge open alliances

Pursue three strategies to achieve 2025 sales of 10bn yen

	<b>Data network service</b>	<b>Data utilization service</b>	<b>Others (B2C, etc.)</b>
<b>Strategic target</b>	Build bonds of trust with hospitals Gain understanding on data supply	Data accumulation and usage	Return medical data to patients Use in preventative medicine
<b>Market size</b>	Small (≒ no. of hospitals)	Medium (growing market)	Large (whole healthcare sector)
<b>Earnings model type</b>	<b>【Stable】</b> Costs for support, etc. Secure funds for company base	<b>【High-earning】</b> Few installation costs Source of high margins	<b>【Upfront investment】</b> Needs upfront investment Share → rapid sales growth
<b>Moves for 2025</b>	Pursue shift to cloud Grow medical check system sales and maintain share	Maintain share of growing market Sales from overseas, insurance field	Upfront investment for new growth Create healthcare infrastructure
<b>open alliance</b>			



## IR Contents in English

<https://en.mdv.co.jp/investor-relations/>

## Contacts

<https://en.mdv.co.jp/application/contactus/form.php?investor-relations-category2>

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