

Kao

Kirei—Making Life Beautiful

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www.kao.com/global/en/investor-relations/library/business-strategy-presentations/

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Definition for Precision Life Care

Aiming for **Precision Life Care** (Life, Everyday lives, Ecology) that proposes optimized solutions for **unresolved issues**

Monitoring Precision monitoring

- Human body
- Activities
- Environment

Identifying the cause **precisely**



Products Precision solutions

- Health care and beauty products
- Other household and personal care products
- Industrial domains

Solving the cause **appropriately**

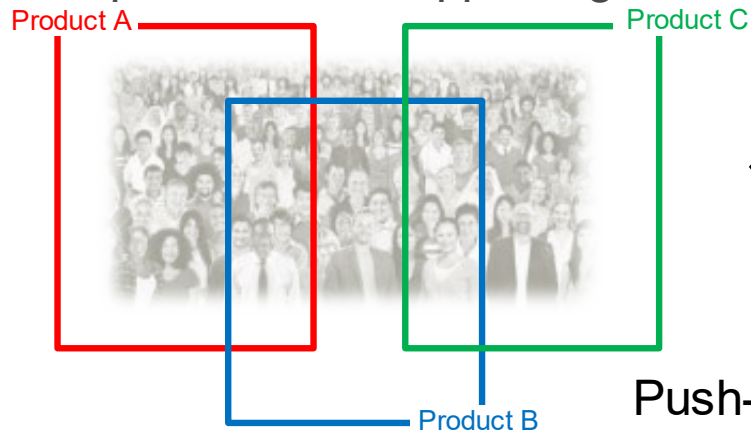
The future of building customer relations

Kao's dilemma

Products in
many types and large quantities

Large advertising costs

Intense competition to make one's
products look appealing



Push-oriented



Large amounts of inventory
and product waste



Deteriorating quality of
products and brands that
only guarantee **low price**

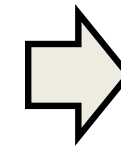
Kao's future choices

Precisely selected products

Trusted information that **precisely**
matches the user

Competition in which products get
chosen because they match each user

Consumers



Pull-oriented



Significant reduction
of product waste



Evolving products and brands
that **matches people's**
individuality

Examples of Precision Life Care business partners



Initiatives with a website company



a manufacturer of products for hair salons



Initiatives with a telecommunications company

The future of relation-building on social media



[Skin-RNA-types × @cosme]

Encounter with cosmetics that suit one's skin

Choosing cosmetics until now

- Number of monthly unique users on @cosme

16.3 million (as of December 2021)

- Top beauty platform in Japan
 - ✓ Beauty media
Monthly active users: **14.3 million**
 - ✓ Beauty-only e-commerce site
Number of products: **45,000 SKU**
 - ✓ Specialized cosmetics store
Annual sales of **10.4 billion** yen

The future of choosing cosmetics

Toward becoming a health care and beauty platform

- An evidence-based website for customers to find out their type
 - ✓ **Identifying their skin type** on a genetic level
 - ✓ Finding out their **group** in beauty + health care
 - ✓ **Evolving** recommendation model site

Sebum RNA monitoring

RNA is a guidebook on skin health and beauty. However, it was commonly believed that RNA would be broken down immediately.

DNA



Does not change because it is a design diagram specific to the person

RNA



Changes due to environmental factors
(including from diet, exercise, stress,
and UV-rays)

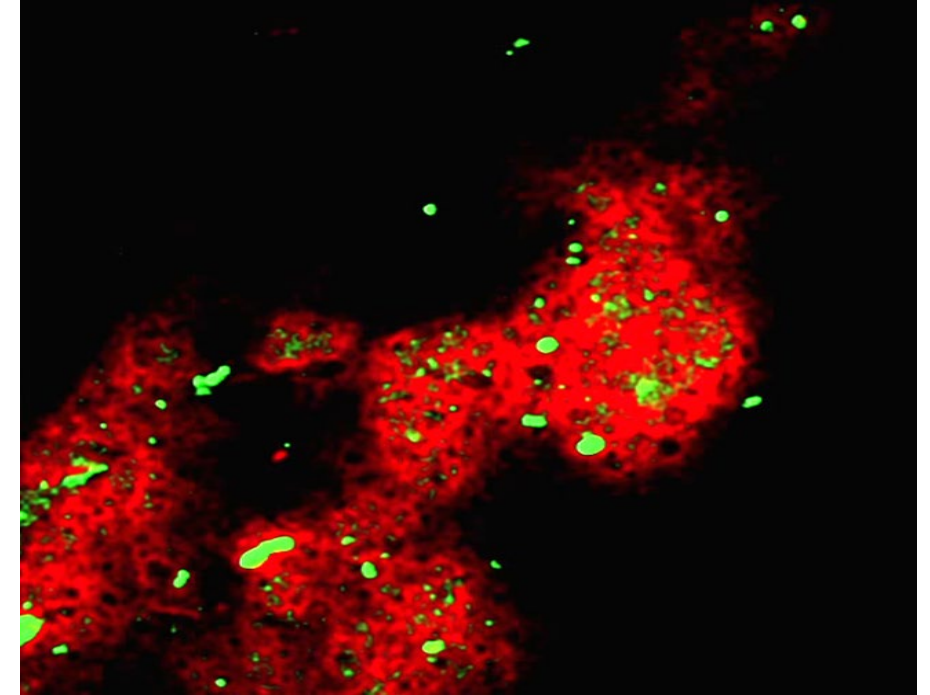
Sebum RNA monitoring

A coincidental discovery during many years of dermatological research



Developed a proprietary analysis technology “RNA monitoring”
www.kao.com/jp/corporate/news/rd/2019/20190604-001/

Fluorescent-stained human sebum



Red: sebum

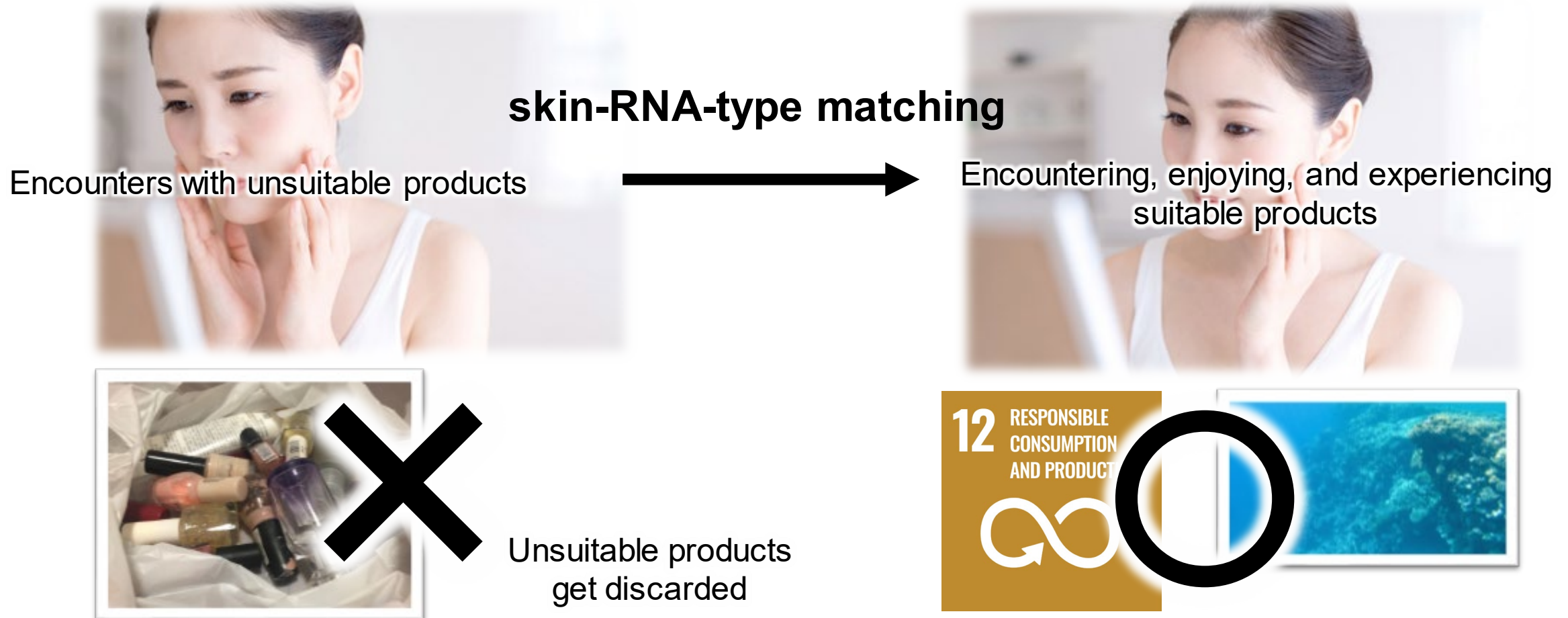
Green: RNA

13,000 types of RNA = genetic expression information

Can be collected “anywhere, anytime, and by anyone”

Initiatives with istyle Inc.

Developing an skin-RNA-type matching system that solves the problem of “not being able to find the right products even if they exist”



Evidence-based matching system: “skin RNA type”

Creating a framework in which, through “skin RNA type,” users can find cosmetics that suit their skin

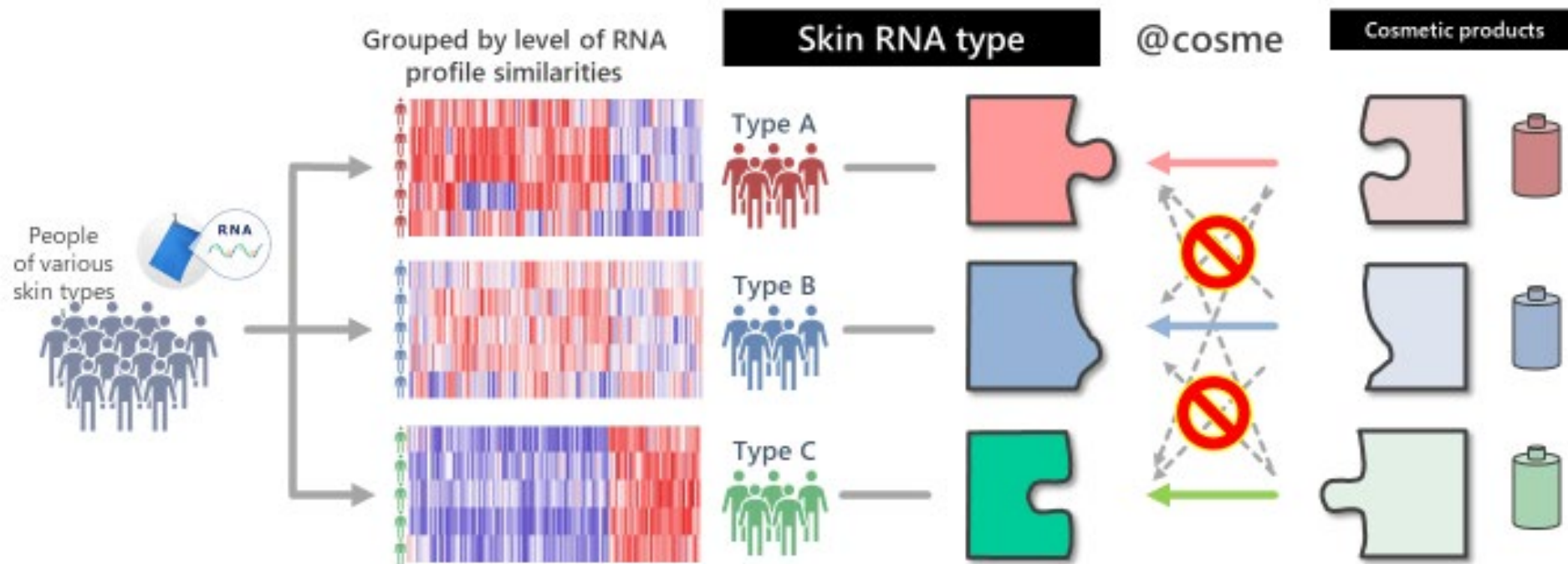
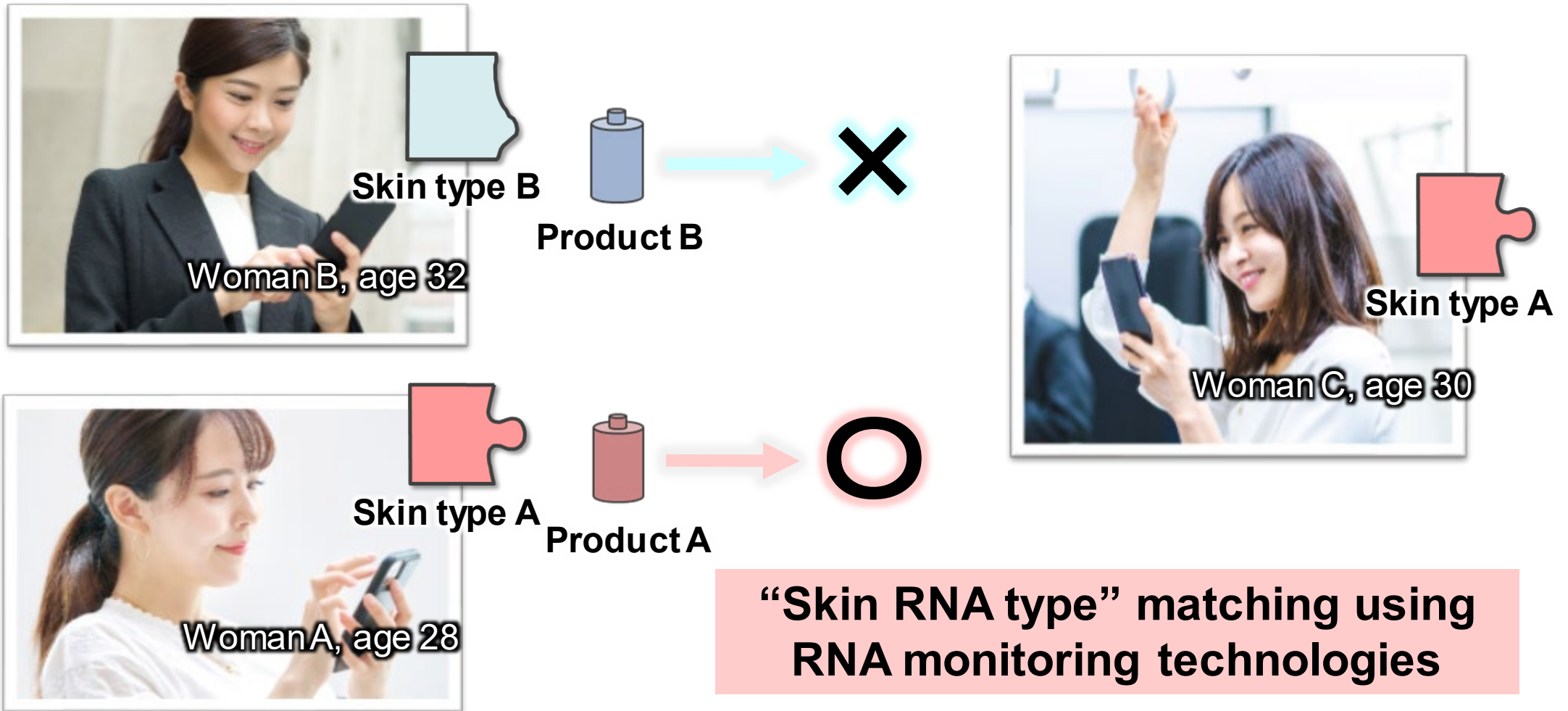


Image of matching cosmetics using skin RNA type

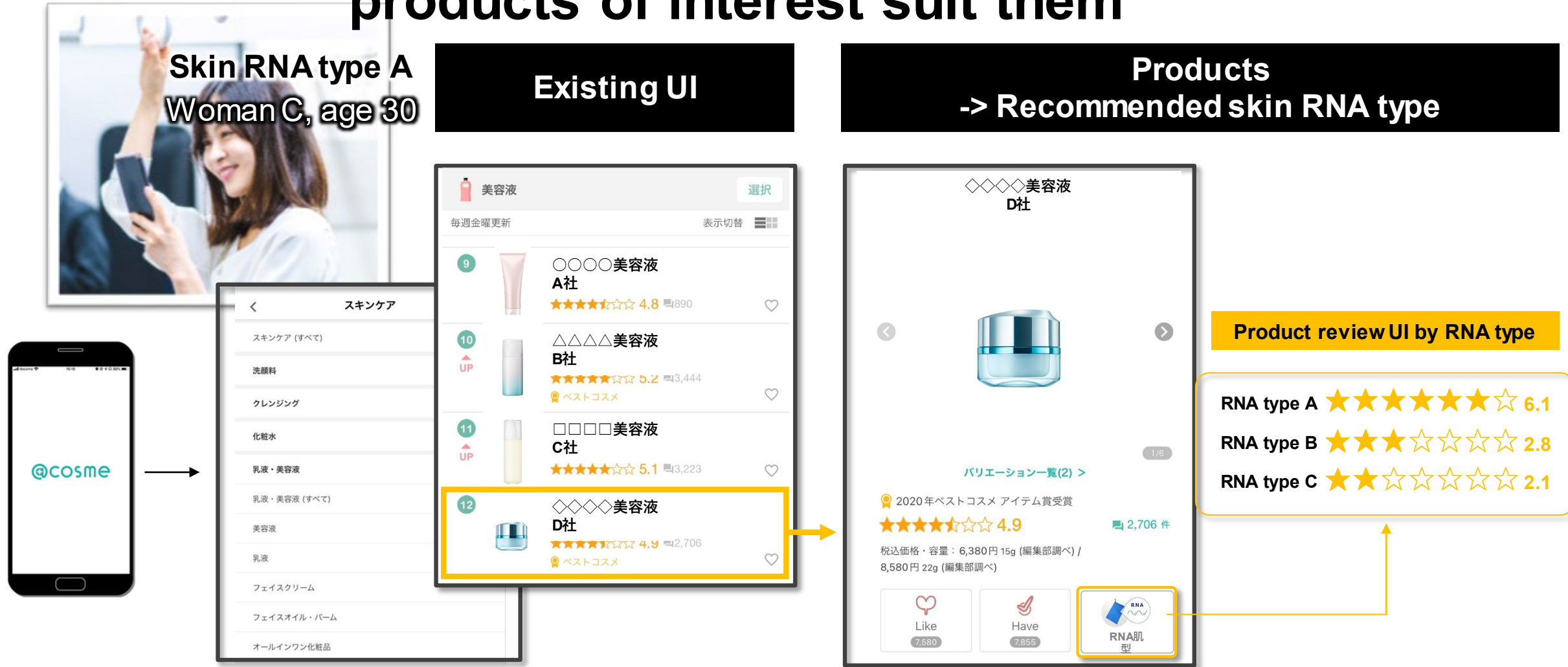
Resonant Precision Life Care with people of the same attributes as oneself

Skin-RNA-type matching system concept that answers the issue of “not being able to find products that suit oneself though they exist”



Rolling out Precision Life Care of social-media-style

Proposing a use interface (UI) that tells users whether the products of interest suit them



Shows reviews of products of interest by RNA type

Initiatives with istyle Inc.

From 2022

Develop the database



Taking a sample with a test kit
From around 10,000 people

KaO

×

istyle

Grouping by skin RNA type x posted word-of-mouth reviews



Evaluate relations with preferred cosmetics

From 2024 (plan)

Apply to services

Applying to @cosme product reviewing UI

Users can effortlessly view reviews
of the products that interest them, by RNA type

Aiming for instant diagnosis with means
such as camera features (plan)



@cosme
product reviewing UI

RNA型別商品評価UI

RNA A型	★★★★☆	2.1
RNA B型	★★★★☆	2.8
RNA C型	★★★★★	6.1



Instant RNA diagnosis
(plan)

Examples of Precision Life Care business partners



Initiatives with a website company



a manufacturer of products for hair salons



Initiatives with a telecommunications company

The future of building relations at hair salons



[RNA × hair salons] Health care with hair salons as a platform

Hair salons until now

- **170,000 hair salons** across Japan (as opposed to 56,000 convenience stores)
- A place that customers continuously and regularly visit (*)
 - ✓ Average of **4.5** visits a year
 - ✓ **66.4%** of customers visit the same salon
- Average time spent **is around 1.5 hours***. Active communication is seen between customers and stylists.

*Hot Pepper Beauty
Beauty Census (first half of 2020)

The future of hair salons

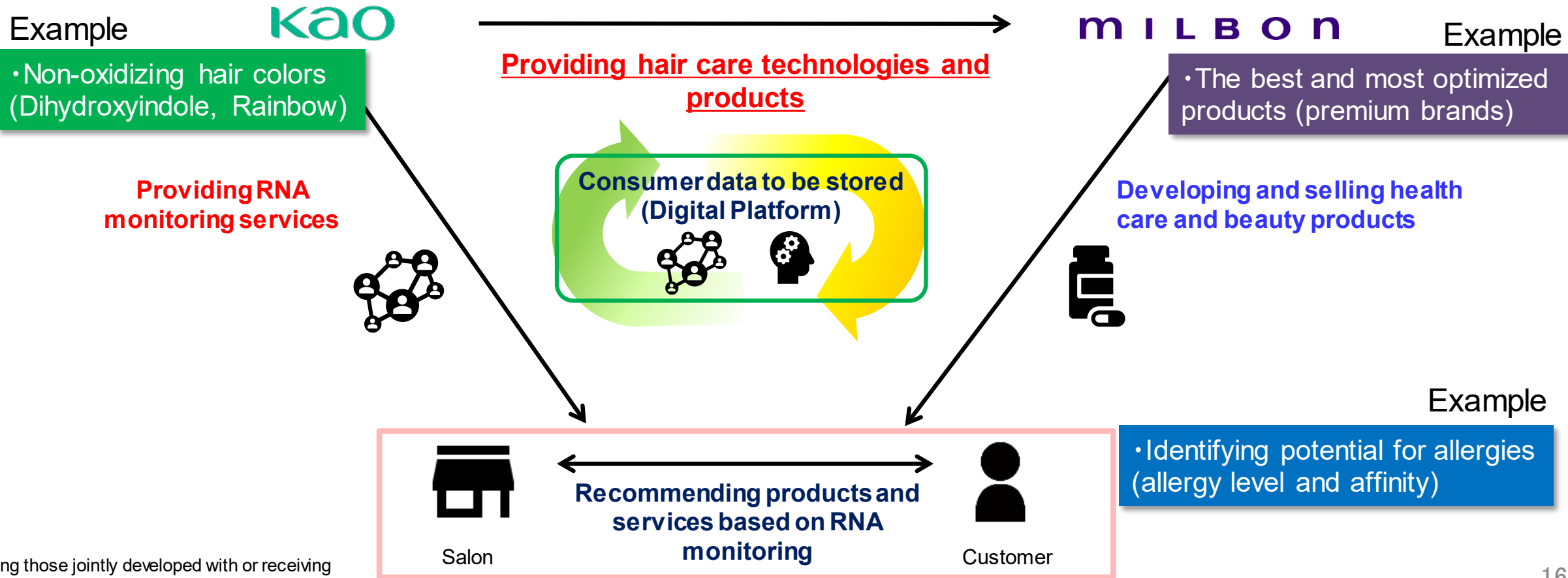
Toward becoming a health care and beauty platform

- Salons as a place to offer continuous and regular counseling to customers
 - ✓ Recommending **the most suitable products and services** on a genetic level
 - ✓ **Comprehensive** health care and beauty **proposals**
 - ✓ Expanding solutions, such as recommending hair color products that are likely to not cause allergies in the future, as well as solutions for pre-symptomatic states and disease prevention to respond to the needs of an aging society

Precision Life Care by stable and quality data

KaO x m I L B O n

RNA monitoring service to be offered at Milbon's customer salons.
The framework to recommend the most suitable products for each customer on a genetic level will be developed jointly



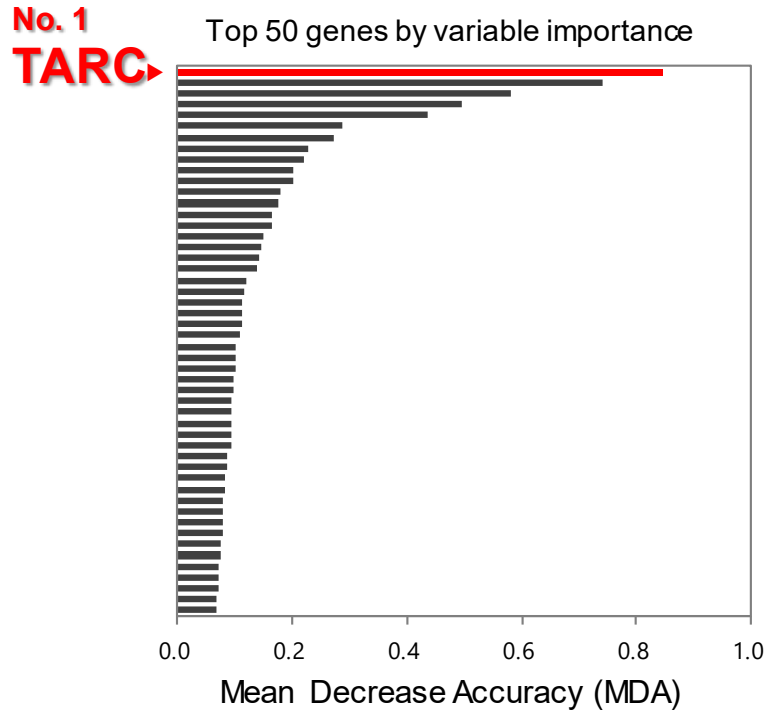
Possibility of precisely diagnosing infant atopic dermatitis (AD)

Kao's initiatives until now

Exploring key RNA molecules for interpretation

Calculating variable importance with machine learning

High importance = significantly contributes to grouping

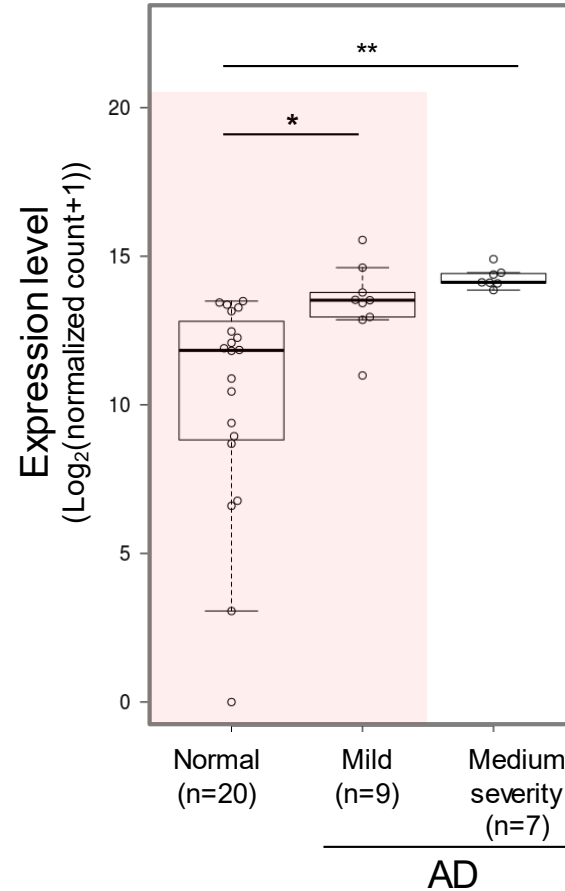


TARC showed largest contribution to the grouping

Changes in sebum RNA molecules were detected in infant atopic dermatitis
<https://www.kao.com/jp/corporate/news/rd/2020/20201016-001/>

SSL-TARC mRNA expression level

*p < 0.05, ** p < 0.01 by Tukey's test



Successfully detected differences from mild AD too

Accuracy of distinguishing between normal and AD

Threshold 13.5 Forecast class

	Healthy individuals	AD
Healthy individuals	20	0
AD	4	12

Healthy individuals identified: 100%

AD identified: 75%

One of the world's highest levels of precision

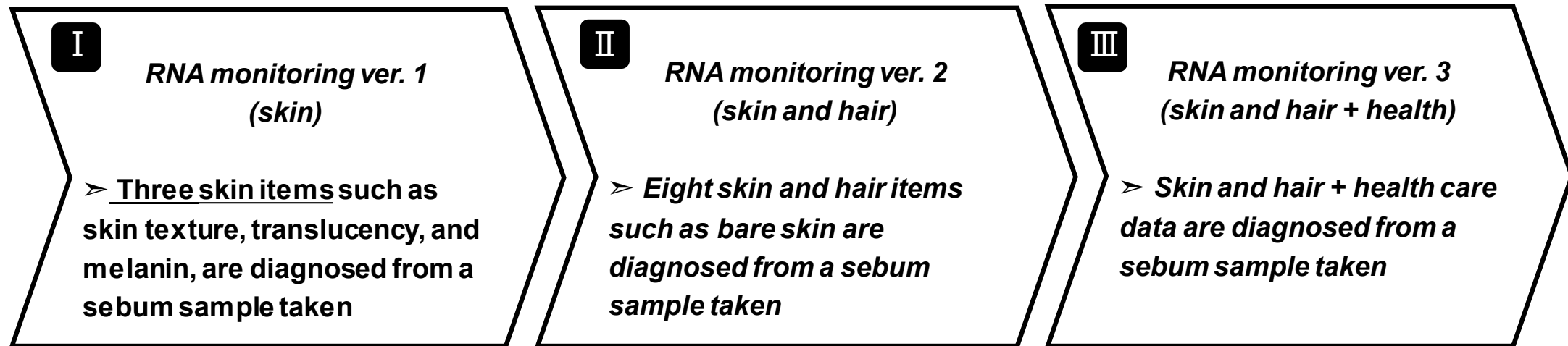
Possibility of being able to diagnose AD just with the TARC in sebum RNA

Precision Life Care by stable and quality data



Field testing to start from the health care and beauty domains, including for skin and hair, aiming to expand to hair color allergies, pre-symptomatic states and disease prevention.

From 2022 Field testing started



Precise product recommendations based on RNA monitoring

Milbon's health care and beauty products



Kao to develop products and provide technological support

Examples of Precision Life Care business partners



Initiatives with a website company



a manufacturer of products for hair salons



Initiatives with a telecommunications company

Precision Life Care

Toward **Precision Life Care** (Life, Everyday lives, Ecology) which provides solutions that are optimized for each person

General purpose

Virtual Human Body Generative Model

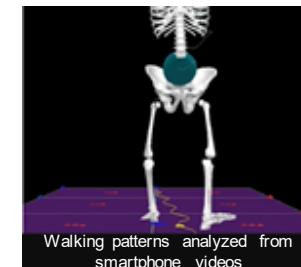
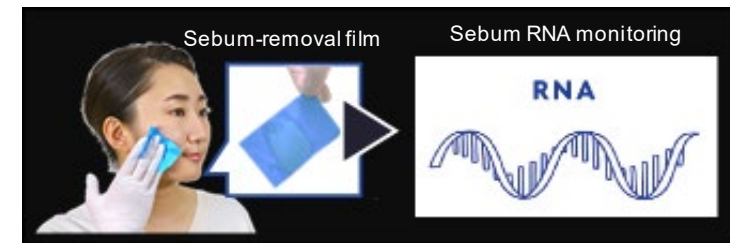


A diverse range of items are comprehensively estimated

+

Precision

Precision monitoring



Precisely identifies the state of an individual

Core technologies for Precision Life Care



The future of building relations on smartphones



[Virtual Human Body Generative Model x d Health care app] Optimized health care solutions for each person

Health care apps today

- **Users do not know which one of the various products and services suits me**
- **Users cannot continue using the product or service** until I see results. If I cannot continue using them, there will be no results, which will create a vicious cycle
- **Enclosing our customers** could eventually narrow down the range of solutions



Ideal Life Care apps

- The user can select the **products and services he/she/they wants** just using a smartphone, **judging from many angles and related elements**
- Aiming for solutions **that can be continued daily** through close user touchpoints (collaborating with d Health care app)
- The apps will be applicable to not just us but **wide-ranging companies**

Smartphones as a platform for data aggregation and value models



Precision monitoring

**The mental, physical
and lifestyle
data is obtained**

Medical
checkups

Movements
Walking

Facial
expressions,
Speech

Bloodstream,
Foul odor

Precision solutions

**The best solutions
are matched
and delivered**

Diet

Exercise

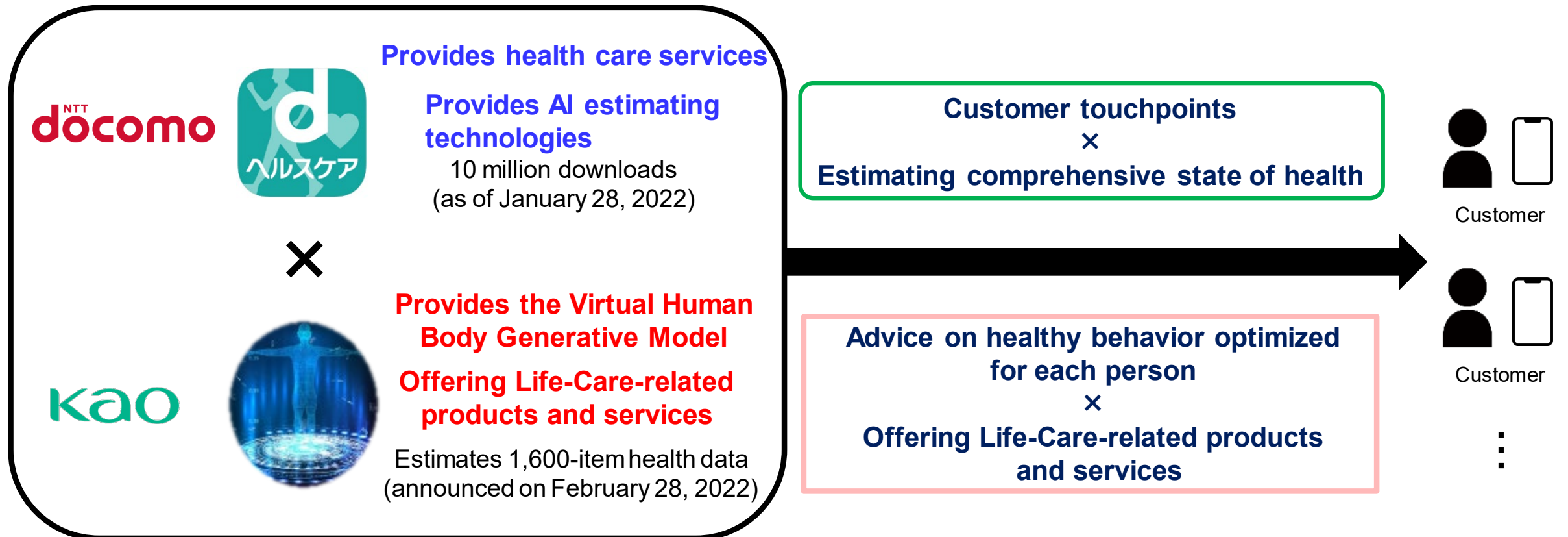
Cosmetics
care

Pharmaceu
ticals

Case examples



Providing health care solutions optimized for each person, by combining Kao's "Virtual Human Body Generative Model" (*) and docomo's "d Health care" app and digital technologies



* Jointly developed by Kao and Preferred Networks

Industrial domains for Precision Life Care

Aiming for **Precision Life Care** (Life, Everyday lives, Ecology) that proposes optimized solutions for **unresolved issues**

Monitoring

Precision monitoring

- Human body
- Activities
- Environment

Causes are **precisely** identified



Products

Precision solutions

- Beauty and health products
- Consumer products
- Industrial domains

Causes are **appropriately** resolved

Industrial domains for Precision Life Care

Aiming for **Precision Life Care** (Life, Everyday lives, Ecology) that proposes optimized solutions for **unresolved issues**

Monitoring

Precision monitoring

1. **Pavements:** Health status of pavements
2. **Agriculture:** Early detection of ill health
3. **Infections:** Identifying infected areas

Products

Precision solutions

1. **Pavements:** Selecting high-durability pavements

Chemical Business: Asphalt paving using waste PET

2. **Agriculture:** Intensive pest control with predictive spraying

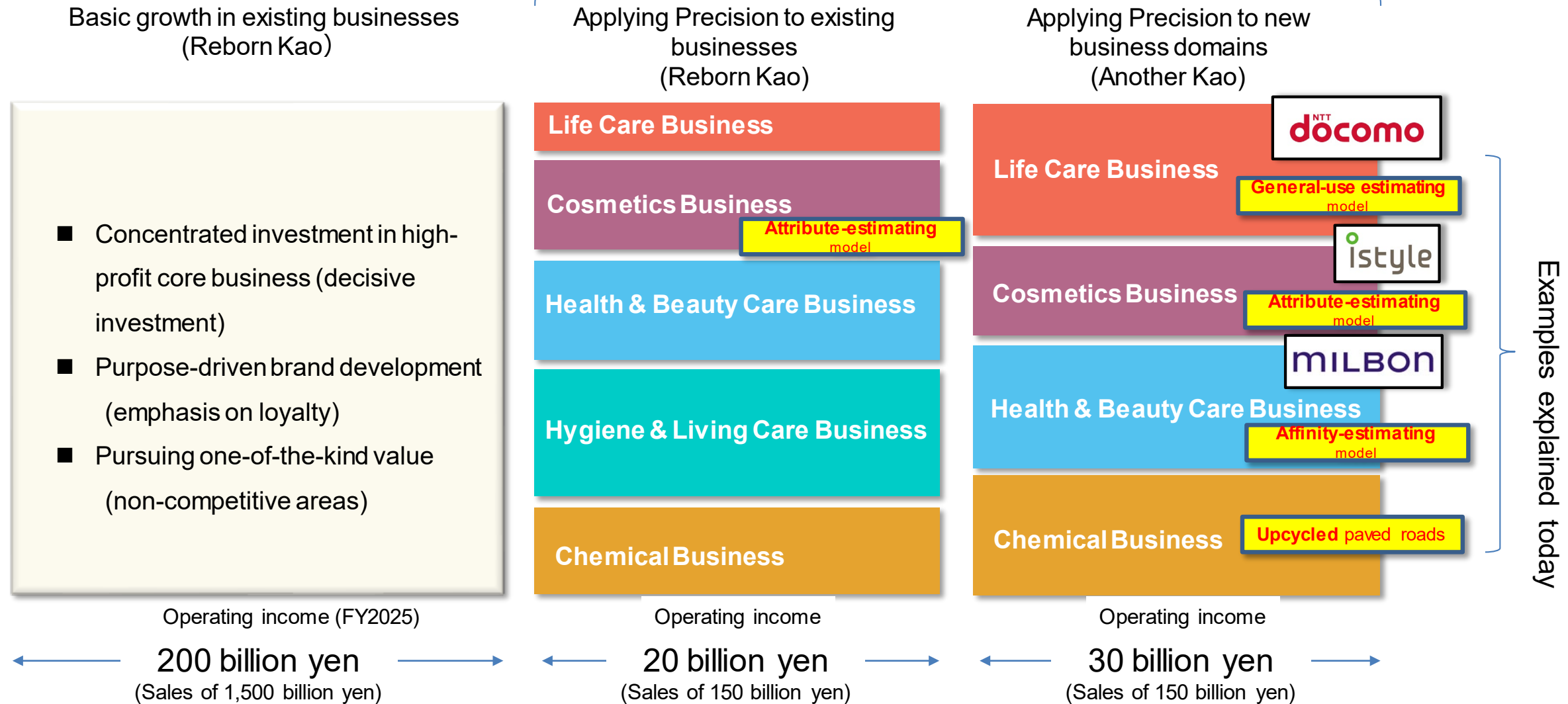
Chemical Business: Super pesticide-reduced agro-chemicals

3. **Infections:** Advanced prevention and hygiene

Commercial-use products and consumer product businesses: Controlling pandemics

Overall profit structure in K25 (Current forecast)

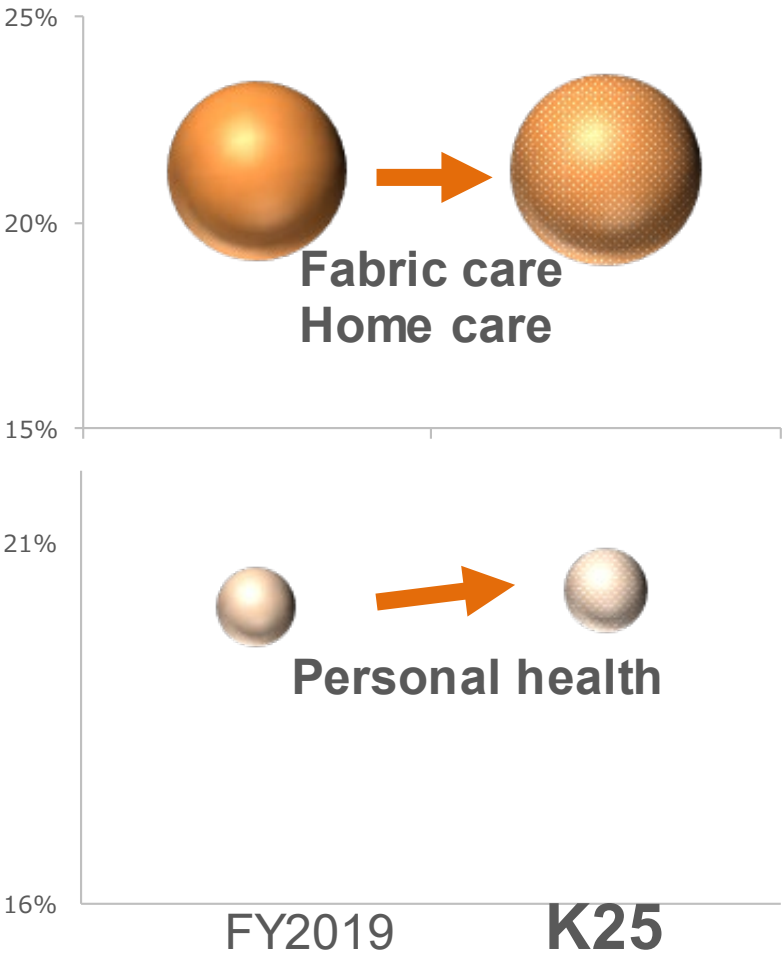
Expansion of Precision-incorporating businesses



Benchmarks for Reborn Kao in K25 (Forecast excluding “Another Kao”)

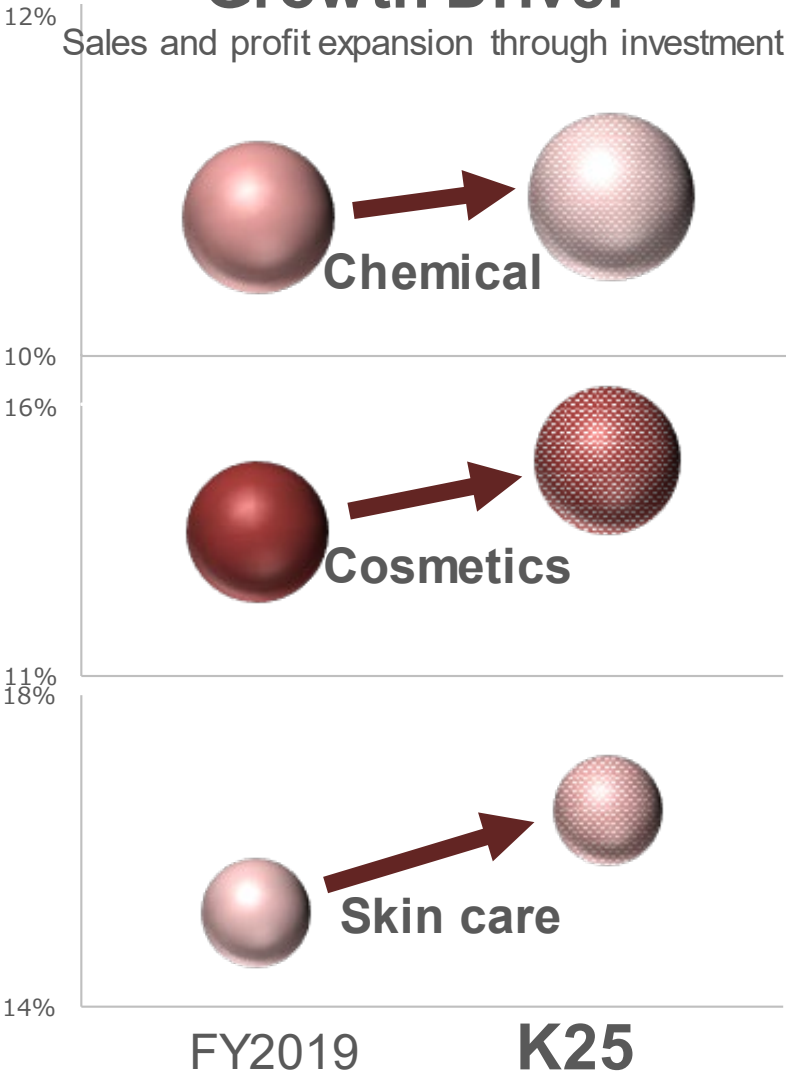
Stable Earnings

High-profit core business/contribution to profit



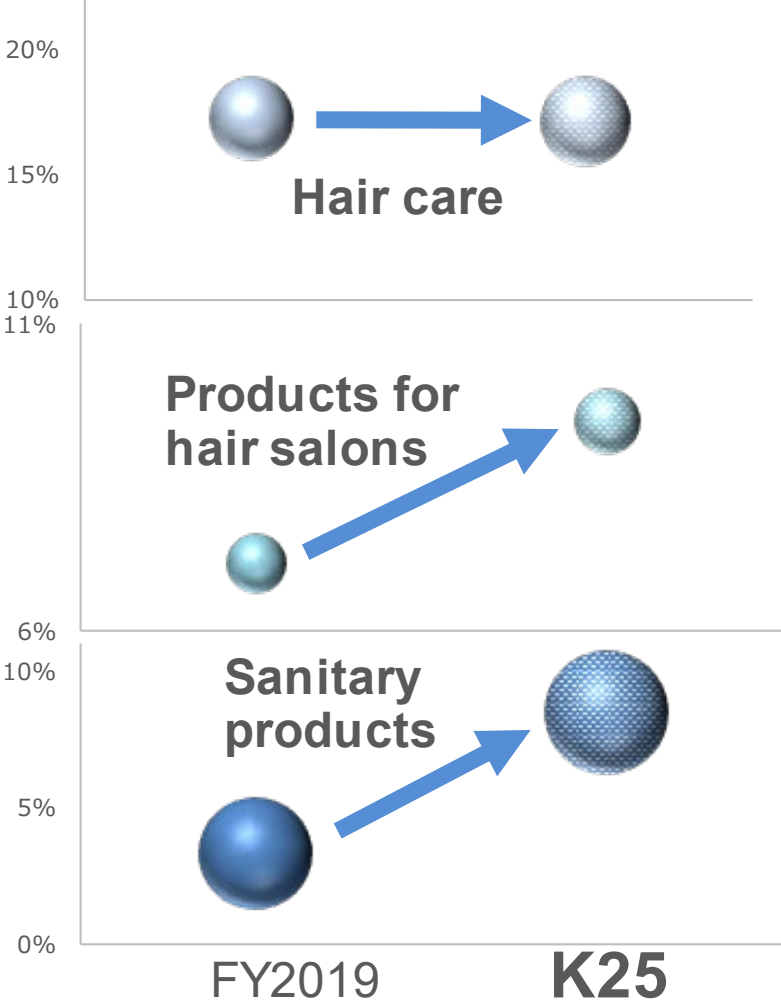
Growth Driver

Sales and profit expansion through investment



Business Transformation

One-of-a-kind value

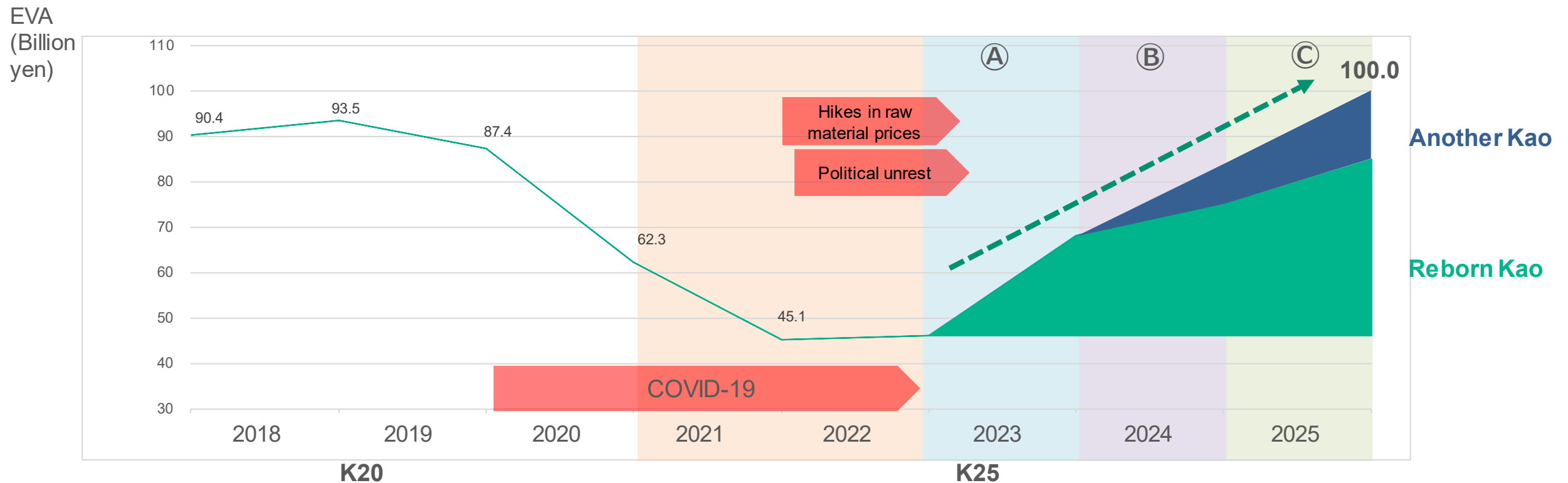


Vertical axis: Operating margin/Bubble size: Net sales (scale adjusted for each area)

Note: Fiscal 2019 was used as the base year to eliminate the special factor of the COVID-19 pandemic.

Roadmap for Achieving K25

With EVA bottoming out in FY2021, return it to a growth trajectory by achieving K25



Preparation period for regeneration

- Reorganization for a highly profitable structure
- Launch of Another Kao

Ⓐ

Entrench Reborn Kao

- Reinforcement of core business + selective growth

Establish Another Kao

- Launch future core businesses
- Conduct M&A to develop new areas

Ⓑ

Extend Reborn Kao

- Phase 2 of strategies for return to growth
- Conduct M&A for growth in existing areas

Generate results from Another Kao

- Phase 2 of growth strategy

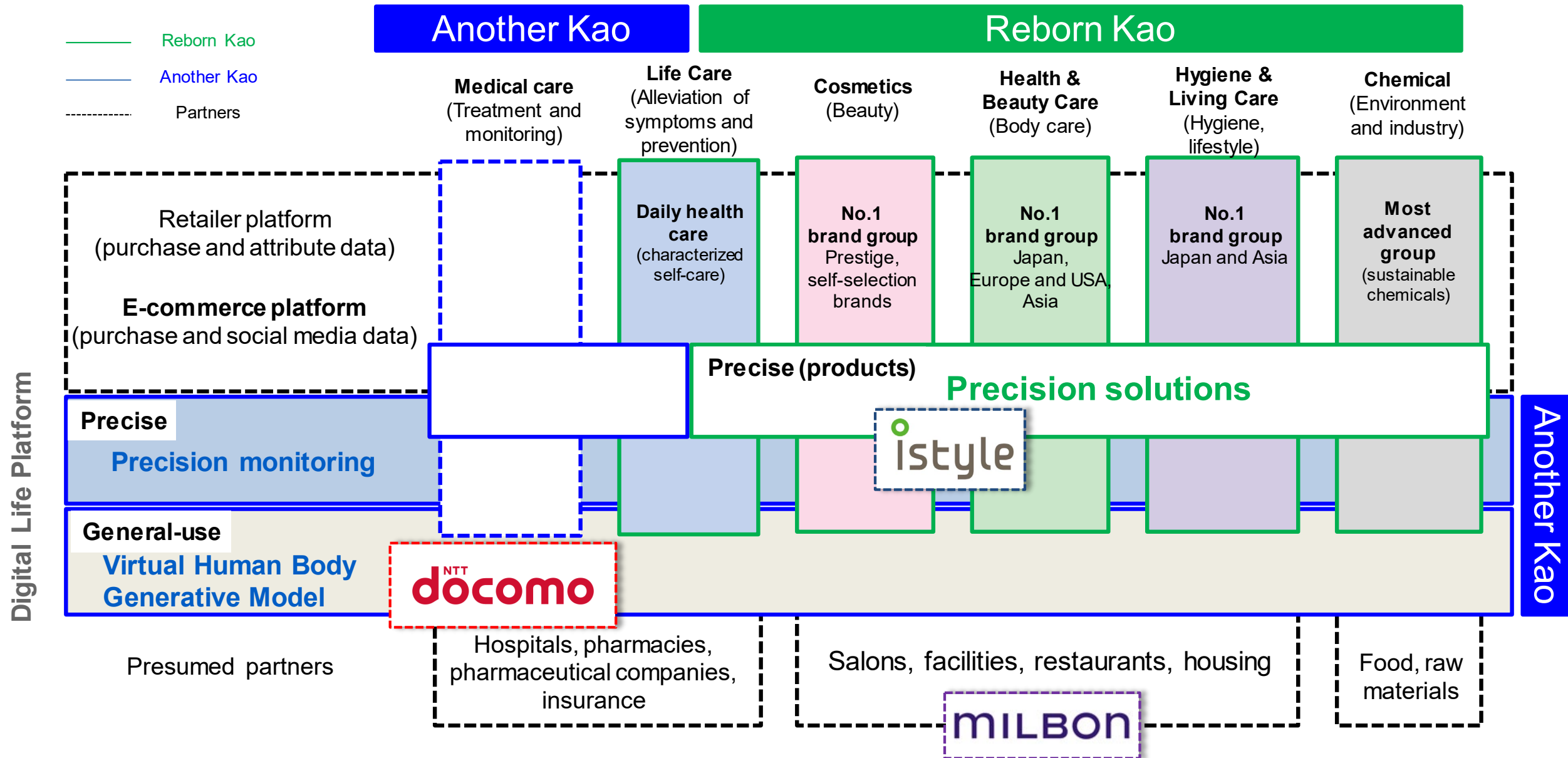
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Leverage synergies between Reborn Kao and Another Kao

- Phase 3 of growth strategy

Conduct M&A targeting companies with 100-200 billion yen in sales and an operating margin above 20%

Kao business reform concept and key partners



Why does Kao choose the Precision path?

Aiming for a “**World of precision**” in which **many authentic products and services** can contribute to helping people share **the truth** and meet their **personal best**

Precision monitoring

Unarguably fair and
socially beneficial
benchmark

Identifying the cause
precisely



Precision solutions

Socially beneficial
and waste-free, best
solutions

Solving the cause
appropriately

