Working Toward Creating Innovation in Life Insurance Business

February 28, 2022 The Dai-ichi Life Insurance Company, Limited

🐺 Dai-ichi Life Group

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I. About Dai-ichi Life Group

—Trajectory of Transformation—

Company profile



Dai-ichi Life Holdings

Established	September 1902	
Listed	April 2010 (First Section of the Tokyo Stock Exchange)	
Head office	1-13-1, Yurakucho, Chiyoda-ku, Tokyo	
Consolidated operating income	7.8278 trillion yen (March 2021 term)	
Consolidated assets	63.5937 trillion yen (end of March 2021)	
No. of employees	64,823, of which 44,818 are salespersons for Dai-ichi Life (consolidated, end of March 2021)	
Solvency margin ratio	958.5% (consolidated, end of March 2021)	

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The principle of putting customers first and the spirit of transformation that have been passed down for more than 116 years



Founder Tsuneta Yano

- Joined Nippon Life Insurance as a medical examiner. Devoted himself to life insurance research.
- <u>Traveled to Europe to learn about mutual companies. Studied at the</u> <u>Gothaer Mutual Insurance Company in Germany.</u>
- Joined the Ministry of Agriculture and Commerce in 1897.
 <u>Contributed to the drafting of the Insurance Business Act and the Enforcement Regulations.</u>

Became chief of the insurance section of the Ministry of Agriculture and Commerce and contributed to the soundness of the insurance industry.

 Founded Dai-ichi Life Insurance Company, Japan's first mutual company, in 1902.

Turning Point (1) The amount of policies in force for private life insurance peaked out in 1997.

With Japan's falling birthrates, aging society, and transition to nuclear family units, the amount of policies in force for private life insurance peaked out due to the reduced need for death protection.



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Trajectory of Transformation (1) Adoption of a partnership strategy, rather than going it alone



In order to meet diversifying needs with high-quality products and services, we have promoted strategic partnerships, rather than adhering to a strict policy self-sufficiency.



Turning Point (2) After 2007, Baby Boomers are in their 60s.



Traditional death protection needs are declining and there is a shift toward savings and medical protection. Japan is becoming a mature market.



Trajectory of Transformation (2)

The Shift to Savings and Medical Insurance in Japan and Development Overseas



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II. Changes in Business Environment



Progression of Societal Aging

Festival scenes — then and now



1966 >>>

>>> 2019

Increase in Social Security costs

In addition to an aging population, advances in medical technology and other influences have caused an increase in social security costs.



Source: Cabinet Secretariat, Cabinet Office, Ministry of Finance, MHLW "Future outlook for social security toward 2040 (material for discussion)" (May 21, 2018)



Changes in Consumer Behavior





Change of Business Model —From "B to C" to "C to B"— Until now

"B to C" business model

Providing standard mass products based on supply-side logic

Product development and marketing with limited customer information

Efficiency-focused value chain

Consumption limited to products displayed in stores

- Internet spread
- Digitalization

.

- Big data accumulation
- Al analysis technology
- > On-demand, seamless

From now

"C to B" business model

Supplying personalized products to meet diverse needs

Product development and marketing based on deepening of customer understanding

An ecosystem that meets customer needs

Self-pleasing consumption after prior research and product comparison





III. Dai-ichi Life's Innovation Initiatives

1. Steps toward creating innovations

Creating Innovation Through InsTech



Insurance×Technology(Insurance)(Technology)

December 2015 April 2017 April 2018 April 2019 April 2020 Cross-functional team formed (InsTech Innovation Team) Dedicated organization established (InsTech Promotion Office) Lab function established (Dai-ichi-life Innovation lab, Tokyo & SV) Data science specialized organization established (Data Management Office) Innovation Strategy Unit/Department, Communication Design Department established

Steps toward creating innovations





Main Initiatives that Have Led to New Experience Value and Business Creation (FY2017-20)

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	Framework development External collaborations/investments, etc.	Exploit core businesses	Explore new capabilities by diversification
FY2017	 ✓ InsTech Promotion Office ✓ Business contest ✓ Collaboration with Shiga University (DS) 	 ✓ Kenko Dai-ichi (Health First) app released 	 Commencement of examination for a scheme to provide an app for Japan Post Insurance
FY2018	 ✓ Shibuya&SVLab ✓ InsTech strategic investment frame ✓ Collaboration with Keio Advanced Research Institute 	 ✓ Dementia prevention app released (for early detection or dementia signs) ✓ Al protection design PoC, etc. 	 ✓ QOLead established ^f ✓ Release of a health promotion app for Japan Post Insurance
FY2019	 ✓ Data Management Office ✓ London Lab ✓ Collaboration with Tohoku University ✓ Business contest 	 ✓ Low-cost, short-term business concept, marketing, and system infrastructure verification (Snap Insurance, eBao) ✓ Establishment of low-cost, short-term preparation company 	 Commencement of joint research with Mizuho FG Development of AI for predicting future medical costs Health insurance support project concept. concept
FY2020	 ✓ Innovation Strategy U ✓ Innovation Strategy ✓ Department 	 CX design system concept, concept verification, communication interface (Mirashiru) development preparations 	 Demonstration experiment on health promotion with Hamamatsu City
New ex Busir	perience value less creation	Al protection design Recommended system とうシル	- NIEITA QOLEOO A THE ALSO A Healstep

Steps toward creating innovations —Insurance Pool—



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 Providing Value to Health Promotion and Medical Checkups

—Transformation of the Insurance Pool—



*Kenko nenrei (health age) is a registered trademark of Japan Medical Data Center Co., Ltd.

"Health age" used by Neo First Life Insurance is calculated through Neo First's own method based on data from Japan Medical Data Center Co., Ltd., and is used for evaluating risks pertaining to specified lifestyle-related diseases. The calculation standard differs from that of the "health age" of Japan Medical Data Center Co., Ltd.

(1) Insurance premium setting according to health age



From the traditional concept of determining insurance premiums based on actual age, to the practice of setting insurance premium based on health age



December 2016

からだ�プラス

カラダ革命

October 2017





The younger your health age, the cheaper your premiums are.*

Risk Comparison With and Without Medical Checkup



The results of big data analysis have shown that there is a difference in risk depending on whether or not a customer has taken a medical checkup.



(2) Insurance Premium Setting Depending on Whether or Not Customers Take a Medical Checkup





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[Initiative example] Sale of insurance with medical checkup discount

Dividing the traditional insurance pool into 3 categories and setting insurance premiums according to whether or not customers have taken a health checkup



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Internal data and external anonymous medical big data were analyzed with AI to sophisticate and expand coverage capabilities.



[Initiative example] Expansion of acceptance through big data analysis





Health Discount Limitations and Dai-ichi Life's Initiatives



Health discount limitations

Dai-ichi Life's Initiatives



If only health discount is pursued, insurance will target only the low-risk group, thereby diminishing the original role of insurance. By promoting not only health discount but also health checkup discount and expansion of acceptance in a comprehensive way, we provide optimal security to our customers while fully demonstrating the proper functions of insurance.

Steps toward creating innovations - Prevention -



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Gap between average life expectancy and healthy life expectancy (2016)

(Published by MHLW in July 2017 and March 2018)



The New Added Value of "Prevention"



Extension of healthy life expectancy and curtailment of medical expenses

<u>Role of life insurance business = To complement the social security system</u>



Extraordinary circumstances



The New Added Value of "Prevention"

In addition to the conventional value of "payment of insurance claims and benefits in case of emergency" ("Protection"),

Provision of the new value of "preventing emergencies" ("Prevention")



"Protection"

Payment of insurance claims and benefits

"Prevention"

- ✓ Prevention of illness
- ✓ Early detection
- Preventing illness from worsening



About dementia

- ✓ With current medical technology, there is no definitive treatment or medicine available for the purpose of achieving a complete cure.
- ✓ Thus, avoiding onset and suppressing disease progression are considered to be the most effective measures.



Implementation of cutting-edge technology from Silicon Valley

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Cultivating the Network of Silicon Valley



- 1 representative officer dispatched to Silicon Valley in April 2017
- Dai-ichi Life Innovation Lab, Silicon Valley established in April 2018
- Cultivation of the network by utilizing Dai-ichi Life's asset management side and the network of the US subsidiary Protective Life Corporation



Significance of Collaboration with Silicon Valley Startups



Press announcement in JPN (Nov 2018)





Launch event in SV (Dec 2018)



Quotes: VC leaders from Silicon Valley

- "Dai-ichi defined an ideal way of collaborating with startups with prevention/early detection capabilities." (Founder of Khosla Ventures: Vinod Khosla)
- "Unlike a typical seminar for Japanese expats in SV, majority of the audience were local VCs, startup executives and corporates. Dai-ichi proved Japan can also do an impactful business here." (MD of Sozo Ventures: Phil Wickham)

(Source) Nikkei

Steps toward creating innovations —Utilization of AI—





Automation of Operations Utilizing AI-OCR and Other Technologies



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Automation of Operations Utilizing AI-OCR and Other Technologies

Using AI technology, we will digitize printed and handwritten text and use robotics and other technologies to automate remaining forms that cannot be digitized. This will allow us to achieve reduction of BPO work and improved productivity of head office operations.



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Overview of AI-OCR base

It comprises form recognition, which sorts by form type, and character recognition, which reads the characters written on the form.



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- Because AI is not 100% accurate, human confirmation is needed.
- High accuracy is efficiently achieved by having people check and correct what AI judges to be of low certainty.



Steps toward creating innovations —CX Design Strategies—



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Transformation of domestic business model through CX design strategies

- > Making a complete departure from traditional customer contact points with the aim of transforming our domestic business model through CX design strategies
- > Providing optimal products, services, and information with optimal timing and through optimal channels to become the insurance group that customers choose



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Steps toward creating innovations —Health App—





Initiatives Toward Solving Social Issues

By providing health promotion services, we are engaged in a number of endeavors, such as helping to extend people's healthy life expectancy and improve their quality of life, providing support for health management in companies and organizations, and contributing to the reduction of medical expenses.



development utilizing collected data

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Promoting Health and Improving QOL Through the Enhancement of Healthcare Apps

We contribute to improving the health of policyholders and potential customers through app services such as the Kenko Dai-ichi (Healthcare) app, the Dementia app, and the Sukoyakanpo (Healthcare for JPI) app.

[Dai-ichi Life] **March 2017** Kenko Dai-ichi app (standard menu) released 第-[Dai-ichi Life/Neo First Life Insurance] (Health First October 2017 Kenko Dai-ichi app (premium menu for policyholders) released [Dai-ichi Life] December 2018 Provision of a dementia check function within the dementia prevention app (for policyholders) [Japan Post Insurance] January 2019 Sukoyakanpo app (standard menu) released Sukoyakanpo [Japan Post Insurance] April 2019 Sukoyakanpo app (premium menu for policyholders) released [Dai-ichi Life] October 2019 Kenko Dai-ichi (health management support menu) released [Dai-ichi Life] Dashboard September 2020 Kenko Dai-ichi App dashboard for group managers released

Main achievements (healthcare app part)

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(Ref) Overview of business towards healthcare administrators



Aiming effective & efficient healthcare services in corporate welfare, the business supports healthcare insurance administrators to reduce medical costs, improve health conditions of their employees and streamline the operation.

Collaborate with Mizuho Financial Group in providing a holistic & integrated service.









We are participating in a social demonstration for Susono City and providing the Kenko Dai-ichi app (health management menu) to local residents and businesses.

Through utilization of the app contents, we verify the effectiveness for Susono City residents and workers and changes in health behavior. Role of QOLead



(operations contracted by Dai-ichi Life)

1 Provision of Kenko Dai-ichi App

 Providing a population approach utilizing the Kenko Dai-ichi app for Susono City

2 Support for behavior change

- Utilizing wearable devices, SNS and events to support behavior change
- Verification of usefulness in Susono City





III. Dai-ichi Life's Innovation Initiatives

2. Innovation-supporting Framework

Establishment of a System to Support Innovation





Dai-ichi Life Innovation Lab



Labs were established in Shibuya, Silicon Valley and London to accelerate innovation by speeding up the PDCA cycle, including flexible PoC.



Creating Synergy at a Global Level



Creating synergy with a taskforce that includes Group personnel in charge of innovation from both Japan and abroad

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Dai-ichi Life Group's Global Innovation: Dai-ichi Life Holdings (dai-ichi-life-hd.com)

Towards Further Growth of the Group



Growth of

Dai-ichi Life Group

We will increase the strengths of the Group from the perspective of "Re-CONNECT", contribute to the well-being of all people in the future, and achieve growth through the realization of a sustainable society looking ahead 100 years from now.

Concept of new mid-term management plan

The well-being of all Realization of a sustainable society looking ahead 100 _______vears from now





Among the United Nations Sustainable Development Goals (SDGs), the goals that are listed here are those of high importance to Dai-ichi Life Group that we have focused on as priority areas for us to undertake value creation by leveraging our strengths.





Thank you for your attention.

