

Presentation at 2004 CAS annual meeting in Montreal

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Part 1: The Non-Life Insurance Market in Japan



Part1 Non-Life Insurance Market in Japan

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1. Statistical Overview of the Non-Life Insurance Market in Japan



Key Statistics

- Numbers of the Non-Life Insurance Companies and Agents
- Gross Written Direct Premiums and Net Written Premiums by Line of Business
- Loss Ratio, Expense Ratio and Combined Ratio
- Business results : Ordinary P&L and After-tax P&L



Numbers of Non-Life Insurance Companies and Agents (as of March 31, 2004)

of the licensed non-life insurance companies

Total : 54

Domestic insurers : 29

Foreign insurers : 25

(Note)

- Domestic insurer: Licensed as domestic insurer, including foreign insurers' subsidiaries incorporated in Japan
- ➤ Foreign insurer: Licensed for a branch operation or through general agent
- # of companies' employees (incl. directors)

: 85,655

of agents : 305,836

of sales staff of agents

: 1,716,006



Numbers of the Non-Life Insurance Companies and Agents (cont'd)

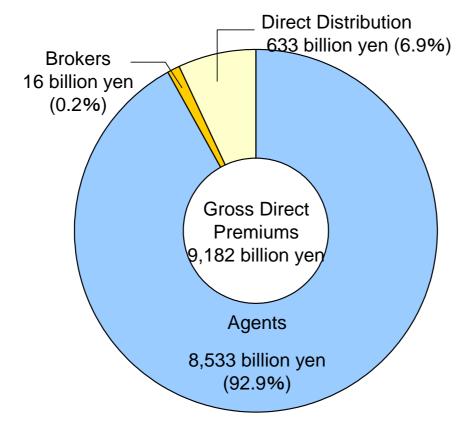
<Chart 1> Number of Non-life Insurance Companies, Agents and Brokers

Fiscal Year	1995	1996	1997	1998	1999	2000	2001	2002	2003
Domestic Companies	26	33	33	35	36	36	33	30	29
Foreign Companies	30	31	29	27	27	26	26	24	25
Total	56	64	62	62	63	62	59	54	54
Agents	476,217	623,741	592,126	593,872	570,919	509,619	342,191	323,139	305,836
Full-time	96,931	90,567	85,544	79,126	73,353	60,264	58,557	55,438	51,283
(share)	20.4	14.5	14.4	13.3	12.8	11.8	17.1	17.2	16.8
Part-time	379,286	533,174	506,582	514,746	497,566	449,355	283,634	267,701	254,553
(share)	79.6	85.5	85.6	86.7	87.2	88.2	82.9	82.8	83.2
Number of sales staff in Agents	1,086,264	1,181,865	1,170,497	1,180,784	1,154,511	1,145,252	1,575,195	1,642,271	1,716,006
Brokers	-	15	45	54	55	54	53	50	50

note: The above figures stand for the total of domestic and foreign insurance companies.

Gross Direct Premiums by Distribution Channel (Fiscal Year ending in March 2004)

<Chart 2> Percentage of Gross Direct Premiums collected by Distribution Channel (for Domestic and Foreign non-life Insurance Companies combined)



(Note)
"Direct Distribution"
includes sales through
employed sales staff.



Lines of Business of Non-Life Insurance in Japan

- Fire
- (Voluntary) Automobile
- Personal Accident
 - : Accident, Medical Treatment, Cancer etc.
- Miscellaneous Casualty
 - : Liability, Workers' Compensation etc.
- Marine & Inland Transit
 - : Hull, Cargo & Inland Transit
- CALI (Compulsory Automobile Liability Insurance)



Line of Business of Non-Life Insurance in Japan (cont'd)

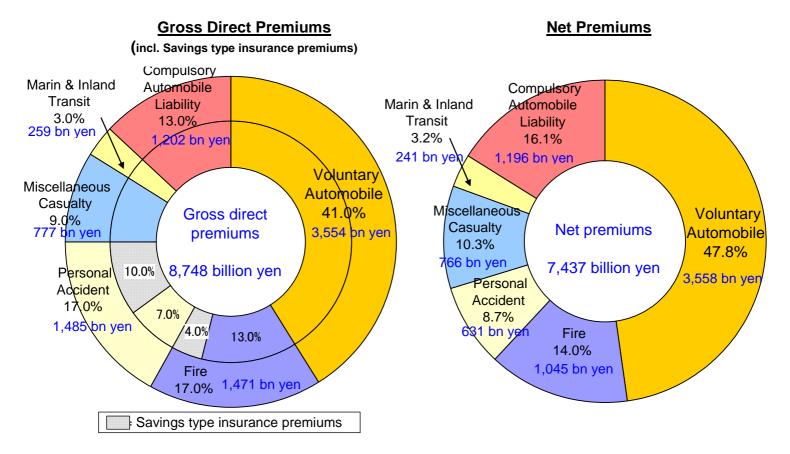
- Third-Sector : Medical, Cancer, Nursing Care etc.
 - Not necessarily classified to life or non-life
 - Benefits : Disease, Accident, Nursing Care
 - In 2001, both life and non-life insurance companies were allowed to start selling all kind of third-sector insurance products.

Saving Type (Maturity-Refund-type) Insurance

- This type of policies have been in the market since early 1960s
- These policies are unique (mostly) to the Japanese market
- Having combined function of both indemnity and savings
- At the maturity of the policy term, policyholders receive guaranteed amount of refund

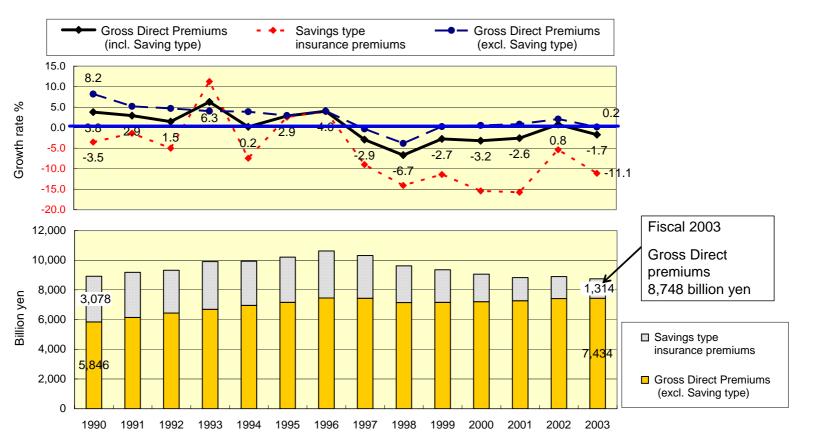
Premiums by Line of Business (Fiscal Year ending in March 2004)

<Chart 3> Premiums by Lines in Japan (Fiscal 2003)--- Domestic Companies only



Gross Direct Premiums (Fiscal 1990 – 2003)

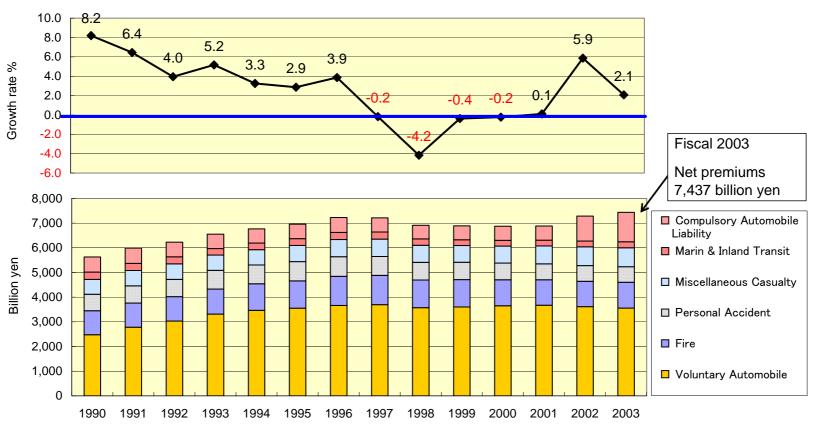
<Chart 4> Gross Direct Premiums (Fiscal 1990 – 2003)---Domestic Companies only





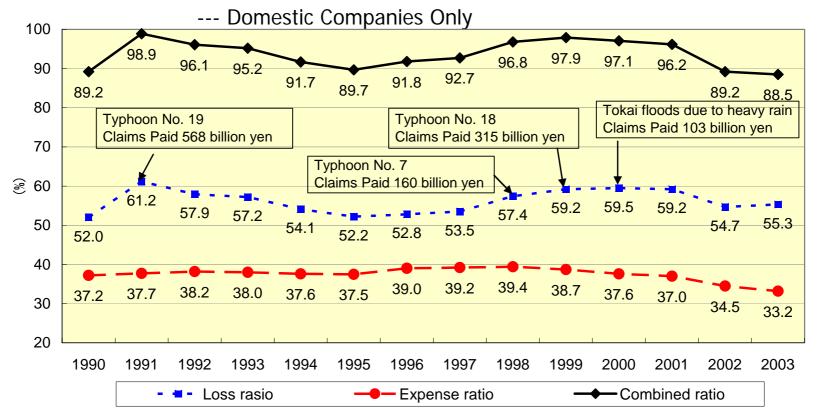
Net Premiums (Fiscal 1990 – 2003)

<Chart 5> Net Premiums (Fiscal 1990 – 2003) --- Domestic Companies only



Loss Ratio, Expense Ratio and Combined Ratio (Fiscal 1990 – 2003)

<Chart 6> Loss Ratio, Expense Ratio and Combined Ratio (Fiscal 1990 – 2003)

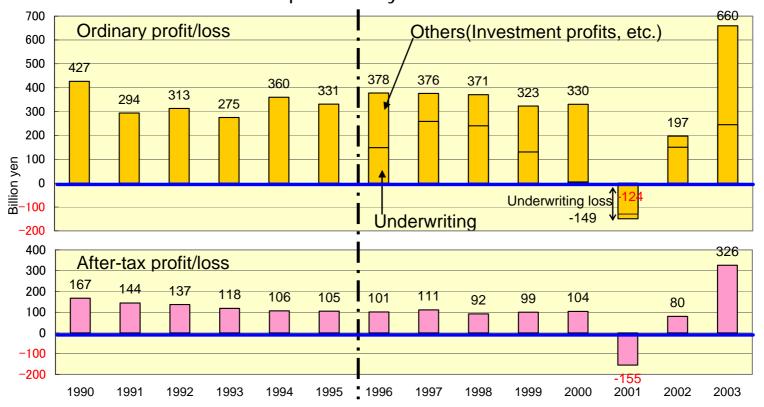


(Note) Loss Ratio: The ratio of claims paid plus loss adjustment expenses to net premiums written

Expense Ratio: The ratio of agent commissions and brokerage plus operating and general administrative expenses on underwriting to net premiums written

Business Results (Fiscal 1990 – 2003)

<Chart 7> Business Results: Ordinary P&L and After-tax P&L (Fiscal 1990 – 2003)
--- Domestic Companies Only



note:Method of caluculation of ordinary profits was revised in line with the revision of Enforcement Regulation of the new Insurance Business Law



Development of Deregulation and Liberalization of the Non-life Insurance Market in Japan



Background of the deregulation

- Non-life insurance industry had gone through a period of stable growth for nearly fifty years.
 - Japanese economic growth
 - Price control by the authorities
- These business circumstances started to change when the deregulation began in 1996.



Factors of the deregulation

- (1) Change of the economic and social environments
 - Progress of economic globalization and diversification of consumer preference
 - Advisory council of MOF issued reports suggesting a grand design of the reform plans
- (2) New Insurance Business Law (IBL)
 - New IBL became effective in April 1996
 - Enable non-life and life insurance companies to compete through establishing a life/non-life insurance subsidiary (mutual entry)



Factors of the deregulation

(3) The Japan-US Insurance Talk

- Abolition of the compulsory use of tariff rating
- Acceleration of differentiated premium rates for automobile insurance

(4) Financial System Reform (Japanese Big Bang)

- The Government of Japan announced to implement the comprehensive reforms of Japan's financial system by 2001
- Key words: "free", "fair" and "global"
- Restructure of the rating organization system affected non-life insurance industry



3. Transition of the Non-life Rating Organization (SAN-TEI-KAI) System



Former Rating Organization (SAN-TEI-KAI) System (1)

- Rating Organization (SAN-TEI-KAI) calculates gross premiums and applies for an approval from the authorities.
 - Members of SAN-TEI-KAI had legal obligation to use the premium including loading.
 - All non-life insurance companies were members of SAN-TEI-KAI.
- Thus, all companies were selling the same coverage charging the same premium for major lines of business.



Former Rating Organization (SAN-TEI-KAI) System (2)

- SAN-TEI-KAI had annually reviewed the current rates and revised them if necessary.
 - Loss ratio increase → raise premium rates
 - Loss ratio decrease → decrease insurance rate or broaden the coverage
- SAN-TEI-KAI system had brought stable growth.
 - Little need to retain many in-house pricing actuaries!
- SAN-TEI-KAI system had prevented price competition and service diversification.



Revision of the Law

(the Law Concerning Non-Life Insurance Rating Organizations)

- One of the most remarkable points of "Japan-US Insurance Talks" and "Japanese Big Bang" was the reform of the SAN-TEI-KAI System.
- The Law was revised in June 1998.
- FROM "gross premium rates to observe"
 TO "advisory pure risk premium rates"
 - Essential, Revolutionary, Symbolic event!



Rating system after the revision of the Law (cont'd)

- (1) Reference Loss Cost Rates(RLCR)
- RLCR are calculated for the reference of the members.
 - No obligation to use
- Scopes
 - a. fire insurance
 - b. personal accident insurance
 - c. voluntary automobile insurance
 - d. medical expense insurance
 - e. nursing care expense insurance



Rating system after the revision of the Law (cont'd)

- RLCR are calculated based on more experience data
 - More reliable outcome can be obtained than the rate calculated by an individual company
- When RLCR is used as pricing basis, the authorities examine the basis rate in a simplified manner.
 - Shorten the timeframe of the approval process and reduce R&D cost



Rating system after the revision of the Law (cont'd)

- (2) Standard Full Rates (SFR)
- SFR are premium rates (incl. loading) used for lines with high public interest.
- Subject products
 - a. Compulsory automobile liability insurance
 - b. Earthquake coverage of household insurance
- Practically compulsory nature and risk pool mechanism
 - Affordability and availability are secured



Non-Life Insurance Rating Organization

- "The Property and Casualty Insurance Rating Organization of Japan" and "the Automobile Insurance Rating Organization of Japan" were merged in July 2002.
- Members periodically submit their experience data.
- The organization provides services for members and play a role of data bank.
 - Calculate RLCR and SFR
 - Analyze and advise individual company data



Influences of the revision of the Law

- The revision of the Law fundamentally reformed the way in which non-life insurance company operates.
- Competition started to take place in all aspects.
 - Wider coverage and Lower price
 - Enhance additional services
- Insurance companies are required to reform their cost structure to survive.
 - Mergers and reorganizations



Influences of the revision of the Law

- After the deregulation, the demand for nonlife insurance actuaries is increasing.
 - Ratemaking
 - Risk management
 - Accounting
- Deregulation has brought competition to Japanese non-life insurance companies, bringing professional opportunities to Japanese non-life insurance actuaries.



4 Automobile Insurance in Japan



The influence of deregulation and liberalization

- Diversification of the products
- Diversification of the sales network
- Diversification of the services
- Price competition



Diversification of the products

- Expansion of coverage
 - (First Party) Bodily Injury Indemnity Coverage
 - Extra Coverage to pay in Lawyer's Fee
 - Coverage for damage to personal belongings
 - Coverage of expenses for a temporary substitute car and so on
 - Coverage for miscellaneous expense



Diversification of the products

- Expansion of coverage
 - (First Party) Bodily Injury Indemnity Coverage
 - Introduction of first-loss insurance
 - Earlier receipt of all indemnity including the amount of comparative negligence
 - A negotiation with a faulty party by insurer



Diversification of the products

- Introduction of New product
 - Product of more risk-differentiated rates
 - Separation of products into commercial use and personal use
 - Products with Good-Record Refund or a maturity refund



Diversification of the sales network

 Start-up of Direct Response (by Telephone)

Emergence of Online Sales



Diversification of the services

- Emergency wrecker service
- Roadside assistance service
- Lodging, returning, and removal compensation in case of disorder
- Information service
- Puncture repairing service
- Fuel delivery service



Price competition

- Emergence of the product of riskdifferentiated rates
 - Reduction of premium for drivers of less claim expectancy
- Competition for fleet contracts
 - Reduction of premium level
 - Reduction of premium by an appliance of individual treaty



Part 2: Actuarial Profession in Japan



History of Japanese Actuary (1)

around 1880

Modern insurance companies were formed in Japan

1898 Insurance regulation was included in old Commercial Law

1899 Establishment of the Institute of Actuaries of Japan

1936 IAJ started the qualifying examination for fellowship

History of Japanese Actuary (2)

1939 Revision of Insurance Business Law (IBL)

→ Introduction of the Appointed Actuary ("Hokenkeiri-nin") system

Article 89 of IBL (hoken-keiri-nin)
Life insurance companies shall appoint hokenkeiri-nin as set forth in applicable orders, and these
individuals shall be responsible for actuarial matters.



History of Japanese Actuary (3)

1964 Eight Trust Banks joined IAJ as supporting members 1967 Number of members exceeded 1000 Non-life Ins. Cos. Joined IAJ as supporting 1970 members 1976 20th ICA held in Tokyo 1990 15 Commercial Banks joined IAJ as supporting members



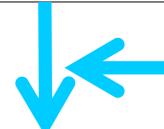
History of Japanese Actuary (4)

1996	Drastic Revision of the Insurance Business Law			
1998	Revision of the Law Concerning Non-Life Insurance Rating Organizaition			
1999	Centennial Anniversary of IAJ IAJ Centenary Convention IAA Tokyo meeting ASTIN / AFIR Colloquia			
2000	IAJ was entitled to "designated corporation" as specified Article 122-2 of Insurance Business Law			
2001	Start selling medical insurance by non-life insurance companies			

Drastic Revision of the Insurance Business Law 1996 (1)

1. Purpose

Half century after Revision of the Insurance Business Law



changes in the environment surrounding the insurance system

Require ensuring the soundness of the insurance industry



Drastic Revision of the Insurance Business Law



Drastic Revision of the Insurance Business Law 1996 (2)

- 2. Items closely related to actuaries and IAJ
 - (1) Improvements to the hoken-keiri-nin system
 - (a) Appointment of hoken-keiri-nin
 - (b) Duties of hoken-keiri-nin
 - (c) Confirmation items of hoken-keiri-nin
 - (2) Introduction of provisions in regard to standard liability reserves (Life insurance)
 - (3) Introduction of confirmation provisions in regard to policyholder dividends



The background of introduction of the "Hoken-Keirinin" system into the non-life insurance in Japan

Started sale of

- (1) maturity-refund-type non-life insurance
- (2) nursing care insurance.



became important

- the savings level of reserves
- the rates of dividends to policyholders



The "Hoken-keiri-nin" system was introduced to the non-life insurance regulation in 1996.

Organizational Chart of the IAJ



The qualifications for "Hoken-Keiri-nin"

"Hoken-Keiri-nin" must meet at least one of the below qualifications.

	Title	Required years of Actuarial Experience
1.	Fellow	longer than 5 Years
		(for life insurance) 5 years about life
2.	Associate	longer than 10 years
(for life insurance)		
3.	Fellow	longer than 7 Years and
		longer than 3 years about life



The role of "Hoken-Keiri-nin" (1)

The hoken-keiri-nin have to commit

- 1. Calculation method of premium
- 2. Calculation method of policy reserve
- 3. Calculation method of dividend to policyholder and distribution of surplus
- 4. Calculation method of surrender value
- 5. Calculation of outstanding premium
- 6. Calculation of reserve for outstanding claims
- 7. Plan about offer to sell insurance
- 8. Plan about agency salary regulation

etc.



The role of "Hoken-Keiri-nin" (2)

Role of the Hoken-Keiri-nin

- ⇒ Fiscal year end review
 - Adequacy of reserve valuation
 - Fairness and equity of policyholder dividends
 - Continuity of the insurance business

The Hoken-Keiri-nin must

- submit opinion letter to the board of directors
- prepare supplementary report to the opinion letter
- submit copy of these documents to the supervisory authority

Number of Members

Fiscal Year	1965	1975	1985	1995	2000	2001	2003. July.31
Fellows	200	310	507	773	952	985	1,008
Honorary	3	5	6	9	6	7	8
Associates	347	596	801	899	772	784	801
Students	217	600	664	1,674	1,667	1,637	1,703
Supporting Members	32	58	69	106	131	118	109
Total	799	1,569	2,047	3,461	3,528	3,531	3,629

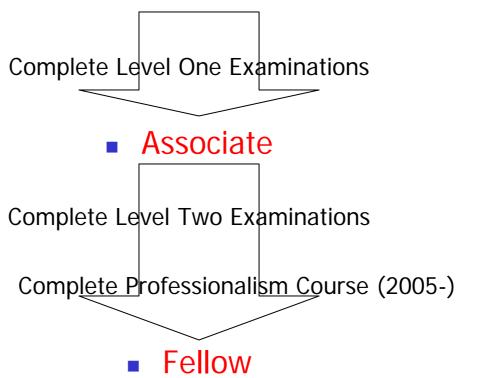


2003. July.31	Honorary	Fellows	Associates	Students	Subtotal□	Supporting Members	Total	
Life	8	422	327	658	1,415	41	1,456	
Non-Life		148	120	254	522	27	549	
Trust Bank		160	92	142	394	6	400	
Others		278	262	649	1,189	35	1,224	
Total	8	1,008	801	1,703	3,520	109	3,629	



Qualification examinations of the IAJ

Candidate (university graduate or higher)





Qualification examinations of the IAJ

Level One Examination(Basic subjects)

Subject	Contents
Mathematics	Probability, statics
Life insurance mathematice	Basic principles and applications
	of life insurance mathematics
non-Life insurance mathematice	Basic principles and applications
	of non-life insurance
	mathematics
Pension mathematics	Basic principles and applications
	of pension mathematics
Accounting, economics and	Basic principles and applications
investment theory	of accounting,economics and
	investment theory

Qualification examinations of the IAJ

Level Two Examination(Advanced subjects)

Field	Subject	Contents
Life insurance courses	Life Insurance 1	Life insurance products and
		development.
	Life Insurance 2	Life insurance accounting.
		Settlements of accounts.
non-Life insurance courses	non-Life Insurance 1	non-Life insurance products and
		development.
	non-Life Insurance 2	Life insurance accounting.
		Settlements of accounts and asset
		management.
Pension courses	Pension 1	Tax qualified pension plan scheme
		and penshon-rerated tax and
		accounting.
	Pension 2	Public pension system and
		employees' pension fund scheme



Number of new fellows

Year	2001	2002	2003
Number of New Fellows	49	46	53

Pass rates (2003)

LEVEL 1	
Mathematics	18%
Life Mathematics	23%
non-Life Mathematics	18%
Pension	12%
Accounting, economics and	
investment theory	30%

LEVEL 2	
Life Ins. 1	16%
Life Ins. 2	21%
non-Life Ins. 1	22%
non-Life Ins. 2	19%
Pension 1	20%
Pension 2	21%



Education system of the IAJ (1)

- University education
- Several universities offer intensive lectures for students in mostly mathematics
- IAJ fellows' lectures
- Courses of study for actuaries offered by IAJ
- Actuarial education course for examinees
- Actuarial student recruitment forum for undergraduate students



Continuing education system

An outline of the continuing education system is given below.

Target	Fellows		
Format	Voluntary participation format		
Activities	Activities that are useful to improve the professional abilities of actuaries 1. Attendance at group study and conferences sponsored by the IAJ 2. Self-study 3. Authoring of publications and theses 4. Teaching at study meetings and the like		
Time Requirement	Fifty hours or more per year		
Reporting and Recording	Report once per year, recording and storing of results performed by the IAJ		
Publication of names of those who completed the requirements courses	Publication in the IAJ journal		

Others

- ASTIN Research-group of IAJ
- New subject for Level One Examination: "Modeling" (scheduled after FY2005)

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The role of Actuary in non-life insurance

- The recent trend of the non-life insurance
- Increase in the number of insurance products and the type of covered risks
- Uniting finance and insurance
- Various risks undertaken other than traditional insurance risk (e.g. Credit Derivatives, Weather Derivative, ART, etc)
- Main fields of actuaries
- Production Dept.
- Underwriting Dept.
- Accounting Dept.
- Asset management Dept.
- Computer system Dept. etc.



Significant theme of Actuary in Japan

International Financial Reporting Standards

 International cooperation with other overseas actuarial organizations (IAA, CAS, IAIS, etc.)



Thank you for your attending.

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