ADB FSD CoP International Insurance Seminar

Responding to the Demographic Transition and Managing Longevity Risks

Aging and longevity: *Implications for life insurers*



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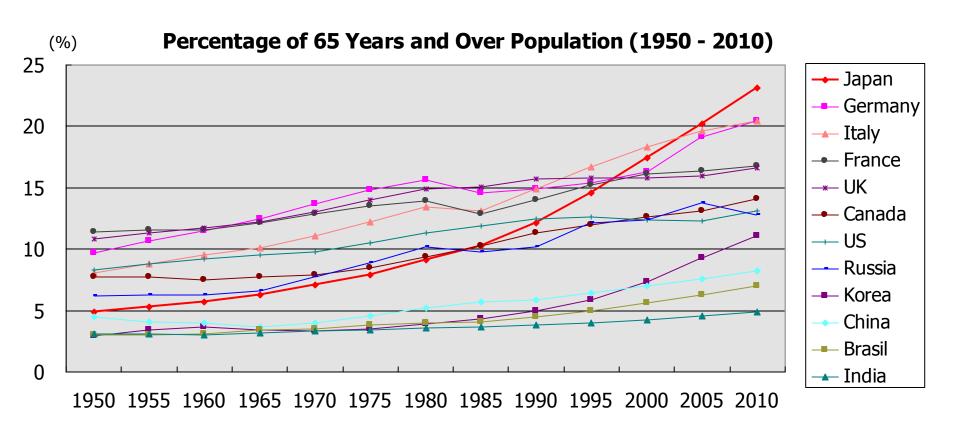
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- 1 Demographic and social changes
- 2 Market environment -Low interest rates and share prices
- Aging and longevity implications for life insurers in Japan and elsewhere
- 4 APFF (Asia Pacific Financial Forum) work on insurance and retirement income
- 5 Conclusion Yin and Yang

Rapid aging

Japan was in the lower-rankings until the 1980s, in the middle in the 1990s, and is already the highest in the early 21st century

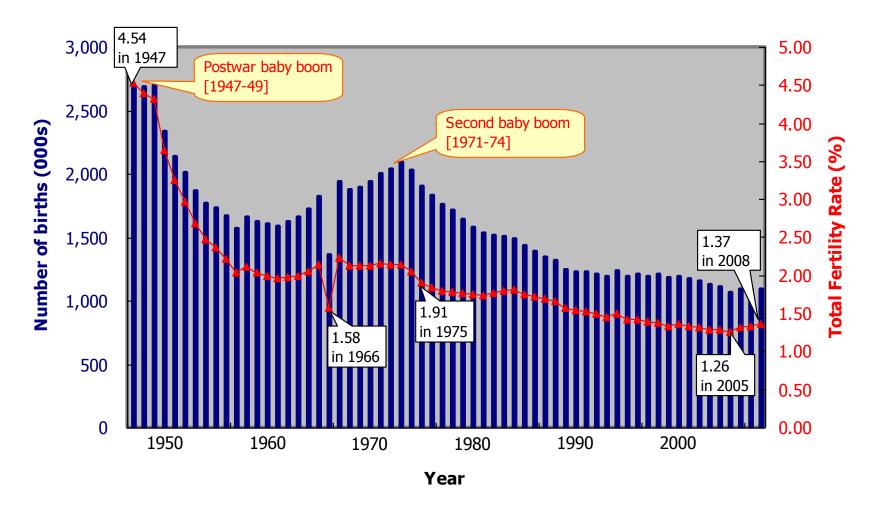


(Source: Statistic Bureau, Data is based on United Nations, "World Population Prospects," The 2010 Revision Note: Data for Japan is based on "Population Census of Japan")



Lower fertility rate - Trends in number of births

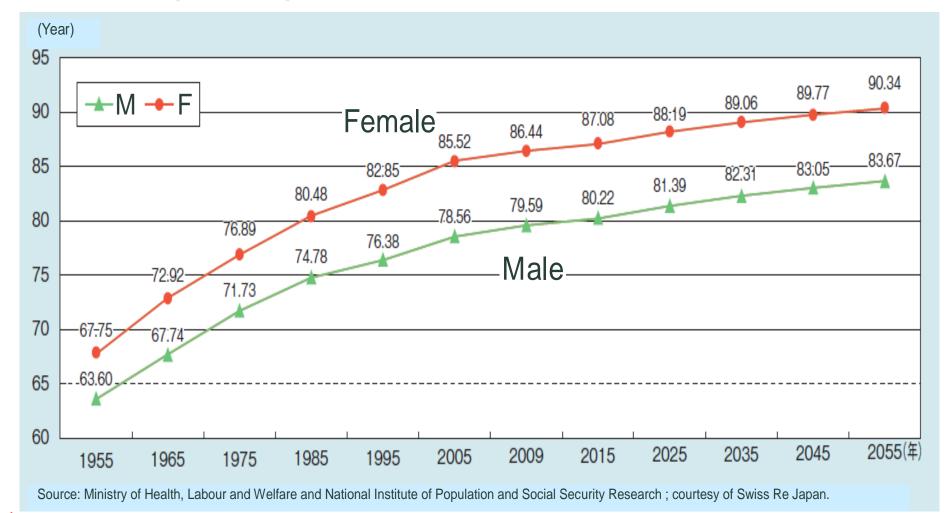
Total fertility rate has dropped from 4.54 in 1947, to 1.91 in 1975, and to 1.26 in 2005



(Source: Ministry of Health, Labor and Welfare, Vital Statistics)

Longer lifespan

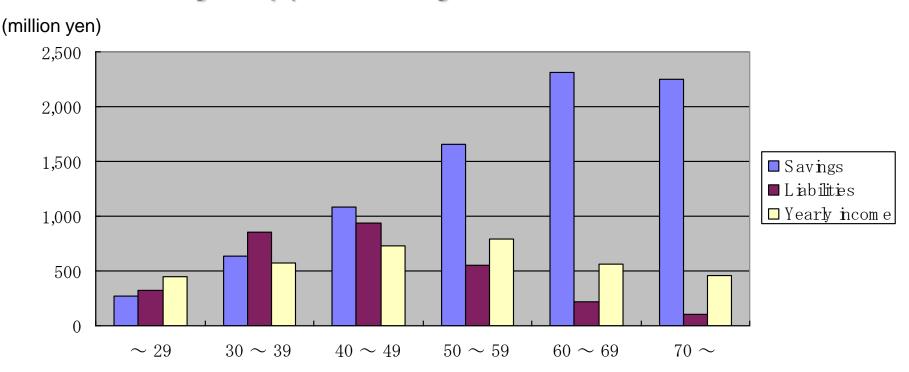
- Japanese life expectancy is among the highest in the world.
- Many Japanese women live alone for around 10 years after their husbands pass away.





Savings higher as age increases

- Savings per household by age in 2010
 - Savings are 2.7 million yen for a householder under age 30
 - 8.5 times larger at 23.14 million yen for a householder age 60 or older
 - Liabilities to be higher as age increases up to the ages 40 to 49, at which age they peak and begin to decrease



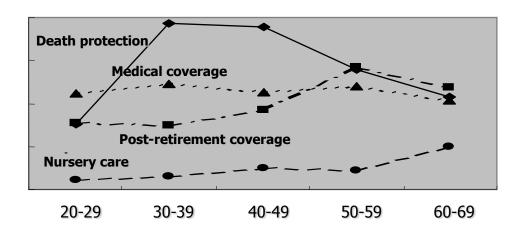
(Source: Annual report on the family income and expenditure survey. Income and expenditure, Statistics Bureau, Ministry of Internal Affairs and communications 2010)



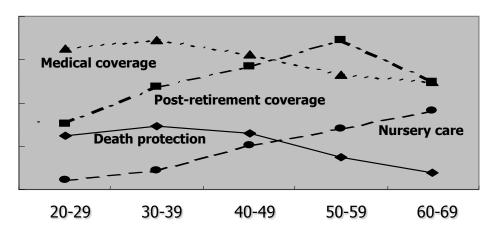
Changing life insurance needs

In recent years, the baby boomers became aged over 50 with independent children, and needs are shifting from death protection to medical and post-retirement coverage

(Men)



(Women)

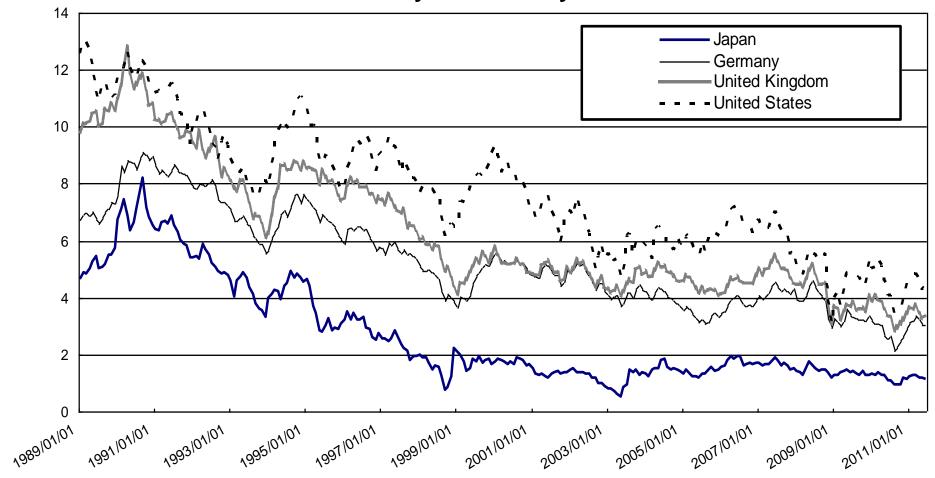


(Source: Japan Institute of Life Insurance "Survey on coverage")

Japan experienced a low interest rate environment

Low interest rates becoming a worldwide trend

Government / Treasury Bonds (10 year) Interest Rate





Stock market has been also disappointing

Low interest rate coincided with poorly-performing stock prices





The pension system in Japan and longevity risk

The public pension provides a whole life annuity and the corporate pension provides a supplement in the form of a lump sum retirement payment or fixed-term annuity

| Pension system | Typical form of payment | Other features |
|--|---|---|
| ① National Pension | whole life annuity | - |
| ② Employees' Pension Insurance | whole life annuity | survivor's pension |
| ③ CorporatePension | lump-sum retirement allowance or fixed-term annuity | some companies provide whole life annuities with a guaranteed term |
| 4 Self-PrivatePension | fixed-term annuity | options for whole life annuity with guaranteed term and lump-sum are available |

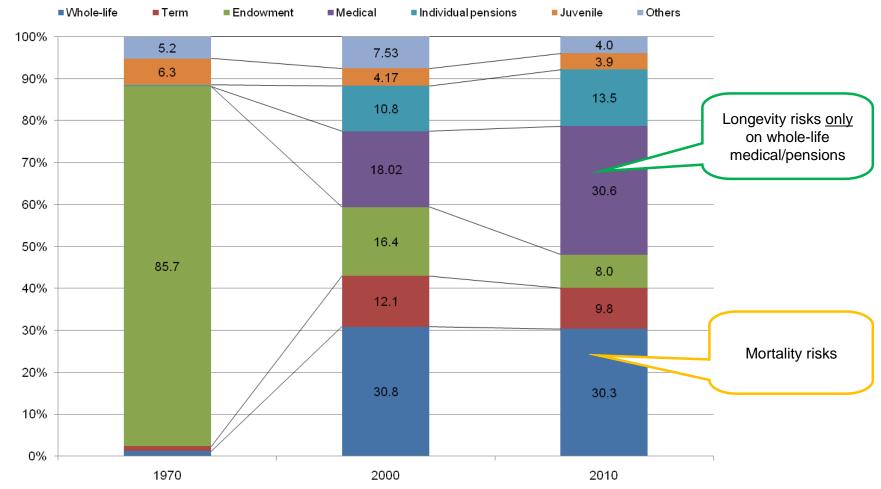
- Longevity risk is mainly borne by government, employers, and individuals.
- Life insurers are subject to longevity risk, in case where the option for whole life annuity is chosen by policyholders for self-private pension.



Offsetting between longevity risk and mortality risk

 Japanese life insurers' exposure to longevity risk is limited but gradually increasing

Changes in Product Portfolio (Number of Policies in Force)

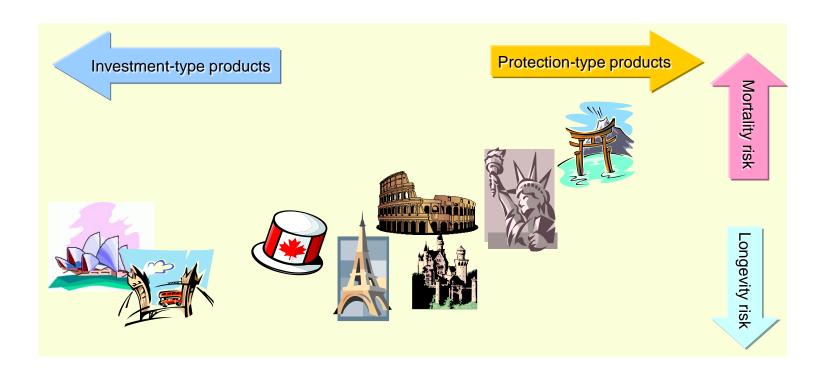




(Source: Life Insurance Association of Japan)

Insurance business models and consumers

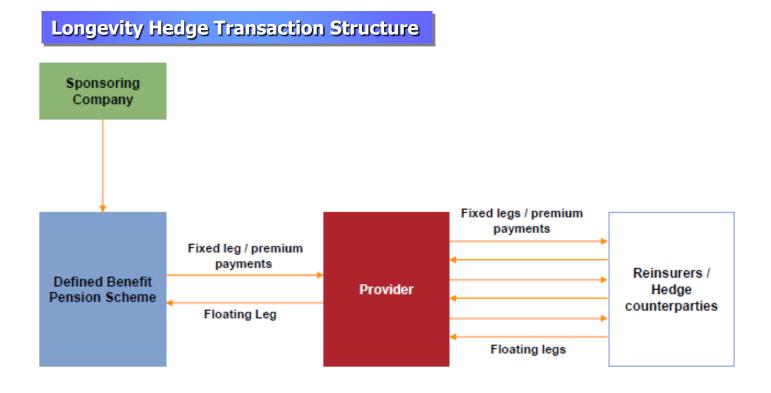
- Different business models by jurisdiction that reflect:
 - ☐ Different risk preference
 - Expected roles of the insurers
 - State of development of financial markets





Other measures to mitigate longevity risk

- Longevity Risk Transfer
 - Buy-out & Buy-in
 - Longevity Swaps
- Longevity as asset class for investors?







Joint Forum Paper on longevity risk transfers

- Joint Forum consultation paper "Longevity risk transfer markets: market structure, growth drivers and impediments, and potential risks (issued for comments by 18 October 2013)
 - Supervisory communication and cooperation
 - Appropriate knowledge, skills, expertise and information
 - Review policies (taking into account social policies)
 - Review rules and regulations on measurement, management and disclosure of longevity risk
 - Expected and unexpected increases in life expectancy
 - Monitoring the LRT between corporates, banks, (re)insurers and the financial markets
 - Bank Exposure to longevity tail risk
 - Longevity and mortality data



APFF (Asia Pacific Financial Forum)





APFF: Public-private collaboration in developing financial systems

- Importance of regional public-private collaboration:
 - Legal and regulatory frameworks
 - Financial market infrastructure
 - Financial market integration
- APFF: informal, inclusive and advisory public-private platform for collaboration in the development of common strategies for developing sound, efficient and integrated Asia-Pacific financial markets
 - Governments and regulatory bodies
 - Private sector
 - International organizations (IFIs, SSBs, others)



APFF: Draft Work Program Initial Phase (2013-15/16)





APFF WORK STREAMS:

- Insurance and retirement income
- Trade finance
- Lending infrastructure
- Financial market infrastructure
- Capital Markets
- + Linkages and structural issues



APFF: Insurance & Retirement Income Workstream





- To help develop policies/regulations to support long-term business roles of insurance and pensions and development of retirement systems
- Initial Work Plan:
 - Gap analysis: survey on insurance, investment, pensions, accounting, regulations
 - Defining proposed list of deliverables, timeframes, benchmarks, action plans
 - Collaborate with interested authorities
- Contributors (initial list): Nippon Life (sherpa), ADB, AIA Group, Australian APEC Study Centre, ASEAN Secretariat, Australian Super, Australian Treasury (tbc) Barnert Global, Cathay Life, IAG, International Insurance Society, Jardine Matheson, Manulife, OECD, PIMCO, Prudential Asia, Samsung Life (tbc), OJK Indonesia (tbc), ASIFMA (observer)



APFF: Focus on insurance & Retirement Income



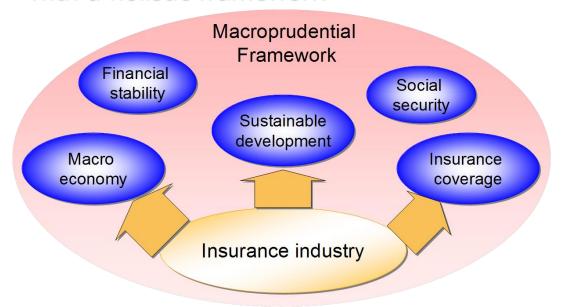


- Helping to develop policy and regulatory frameworks that will enable insurers and pension funds to:
 - effectively provide long-term funding;
 - support financial stability and economic and infrastructure development and;
 - serve the needs of aging society.
- Seeking to help in identifying and addressing regulatory, accounting and other issues that constrain insurers and pension funds from playing these roles
- Aiming to provide advice on the development and funding of retirement systems to foster sustainable institutions, as well as on economic incentives and financial literacy initiatives



Conclusion: yin and yang

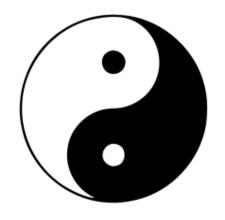
Tao of macro-prudential supervision and risk management with a holistic framework





(Photo - Tao Garden, Chang Mai, Thailand)

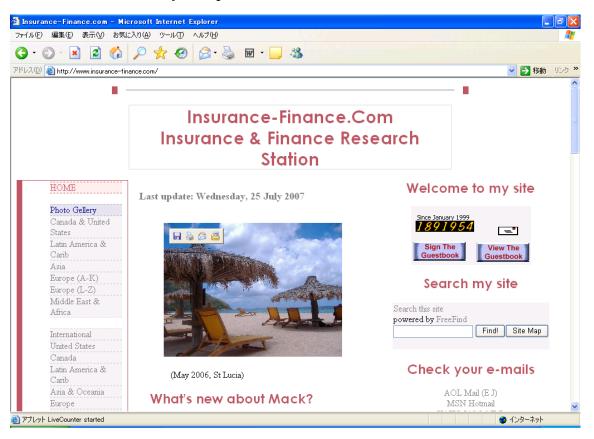
- Some words from Taoism
 - Be aware that the world is cyclical
 - Don't go to the extreme, otherwise you will fall
 - Bring the balance of yin and yang to the universe
 - In order to manage the world, control yourself
 - In order to implement international standards, you should first know your own country





Aging and longevity - Implications for life insurers

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Any questions? email to m-okubo@nliinter.com or visit www.insurance-finance.com

