

## Post Retirement Products – The Need For Protection When People Live Longer

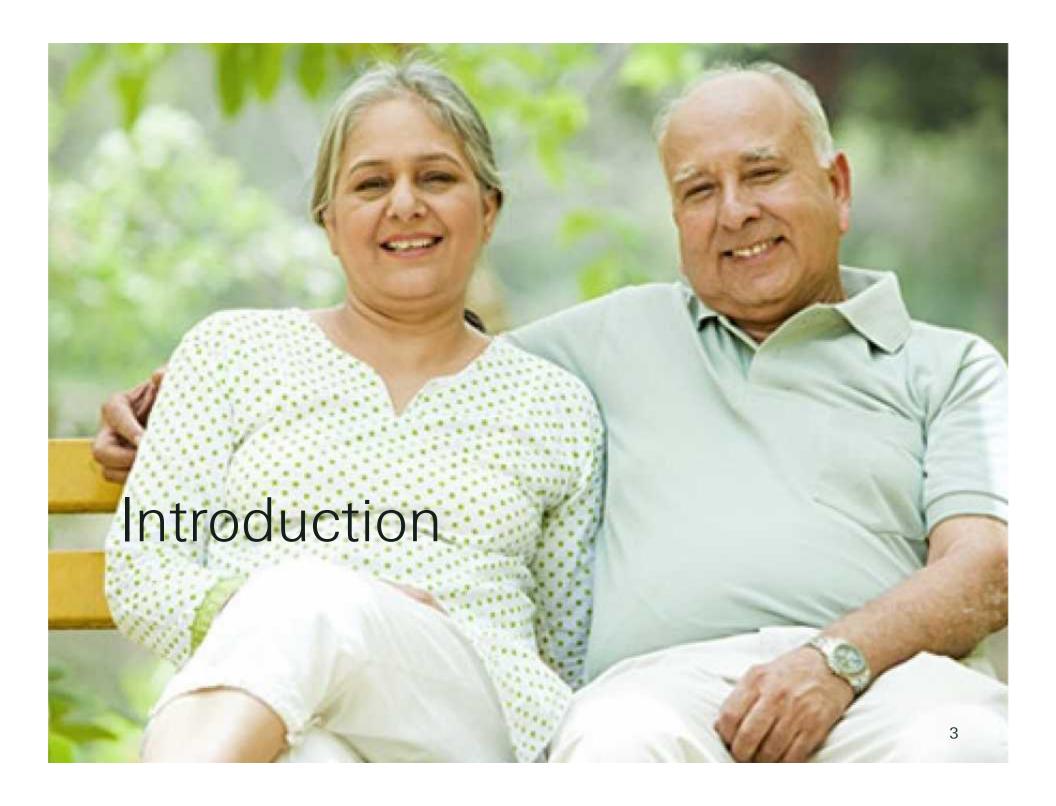
Daisy Ning, Regional Product Actuary, Life & Health Asia Current Issues in Life Assurance, Mumbai 28 November 2014



## Agenda

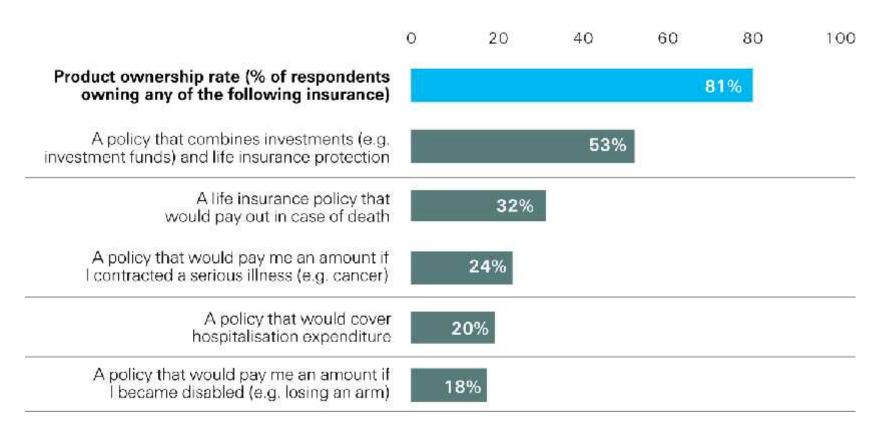
- Introduction
- People are living longer...
- Morbidity
- Longevity
- Long Term Care
- Conclusion





### 81% of respondents in India own some kind of insurance

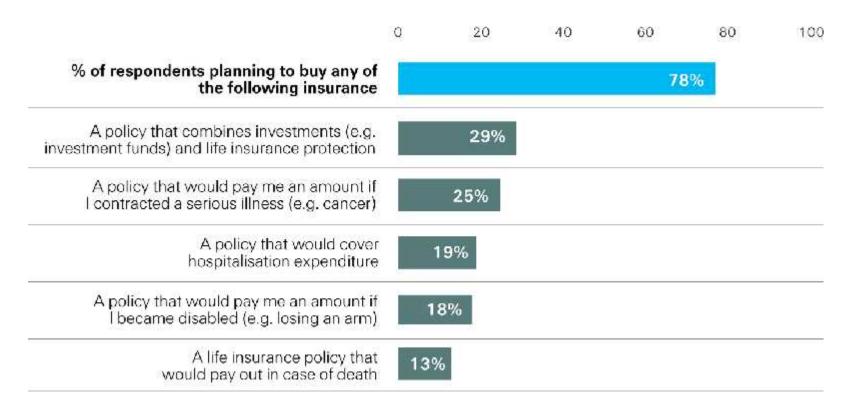
#### Insurance products personally owned (in%)





## 78% are planning to buy insurance in next 12 months – the highest ratio in Asia-Pacific alongside Indonesia

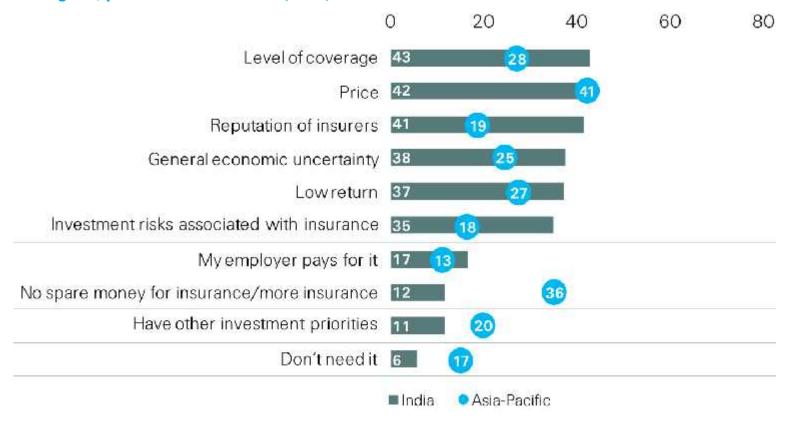
#### Insurance products considered to purchase in next 12 months (in%)





# Biggest barriers for insurance purchases – level of coverage, price and reputation of insurers

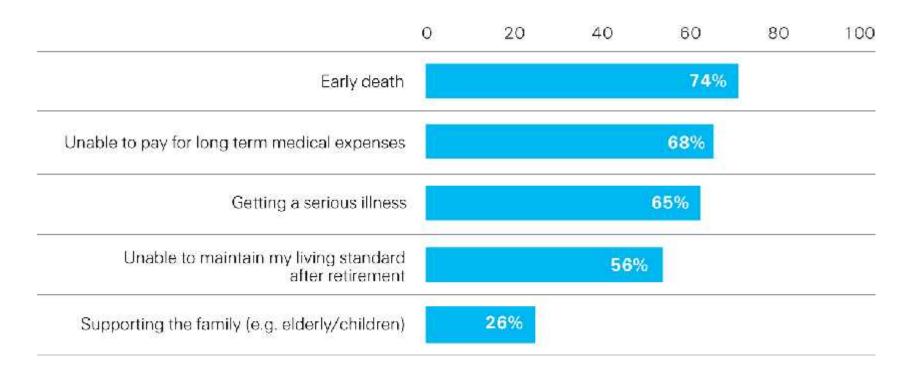
Important reasons that would put respondents off purchasing life/protection insurance (in %)





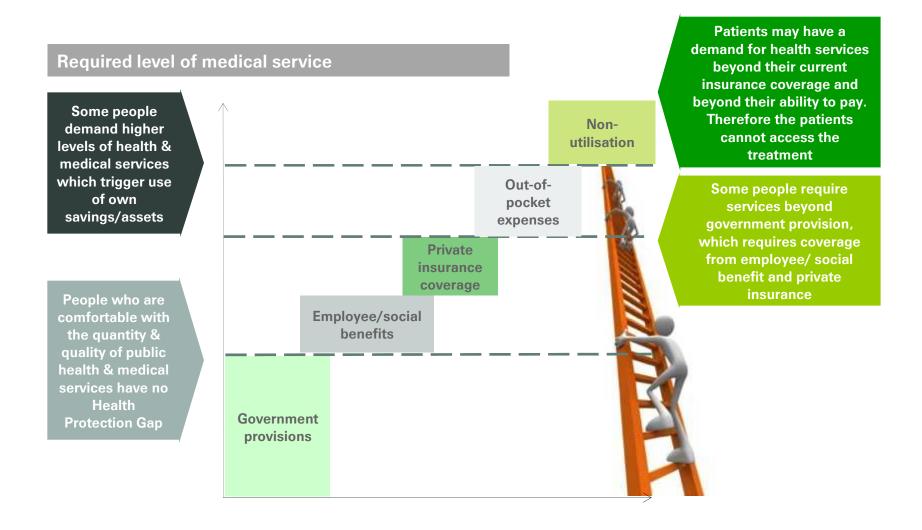
# Key drivers for insurance purchases in India – early death, inability to pay medical expenses and getting a serious illness

Main worries/concerns for the future that might lead you to consider buying life/health insurance (in %)





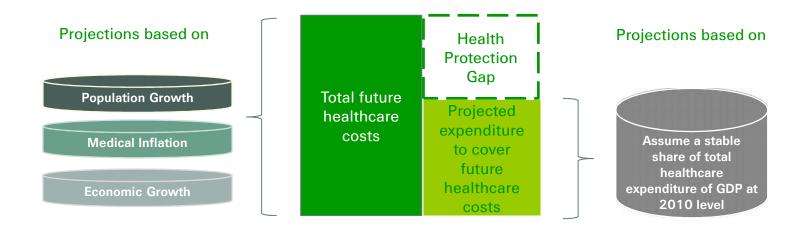
## The size of the Health Protection Gap varies with demand & willingness to pay





## Background of the Health Protection Gap study

- This is the first Health Protection Gap study to feature multiple markets in Asia-Pacific\*
- Swiss Re expects that such a study will be beneficial to both the insurance industry and the public



The Health Protection Gap should be seen as the shortfall in future financing, should governments and private expenditure fail to match expected increases in medical payouts.

Note: \*In this presentation, unless stated otherwise, Asia-Pacific refers to the 13 markets covered in our study and not the entire region.



## Asia-Pacific markets will see a rising Health Protection Gap over time

#### Total healthcare expenditure/ GDP share (%)

	Australia	China	НК	India	Indonesia	Japan	S Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	Vietnam	Total
2000	8.0%	4.6%	5.1%	4.4%	2.0%	7.7%	4.5%	3.1%	3.2%	2.8%	5.5%	3.4%	5.3%	6.4%
2005	8.4%	4.7%	<b>5.2</b> %	4.2%	2.4%	8.2%	<b>5.7</b> %	3.6%	3.5%	3.0%	6.2%	3.5%	5.9%	6.4%
2010	8.7%	5.1%	<b>5.1</b> %*	4.1%	2.6%	9.5%	6.9%	4.4%	3.6%	4.0%	6.6%	3.9%	6.8%	6.6%

Note: \*2009 figure

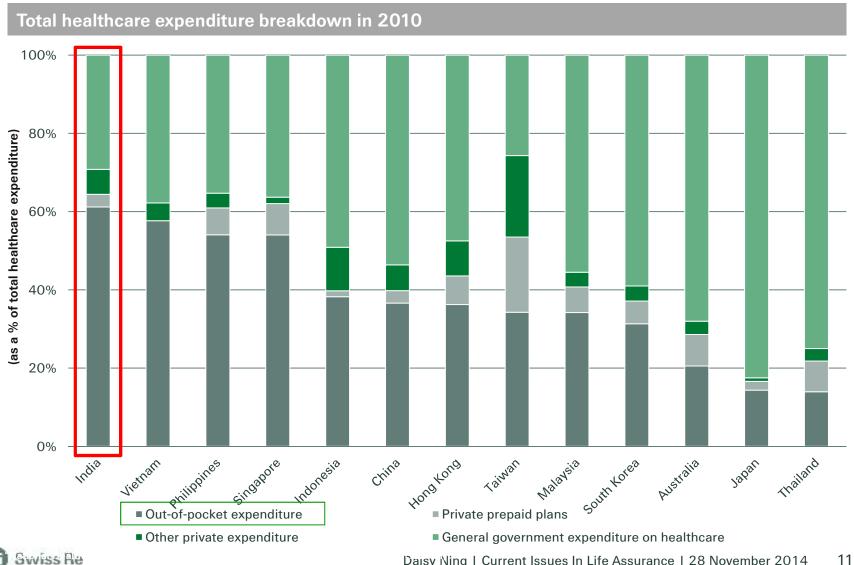
#### Health Protection Gap (S1 minus S2

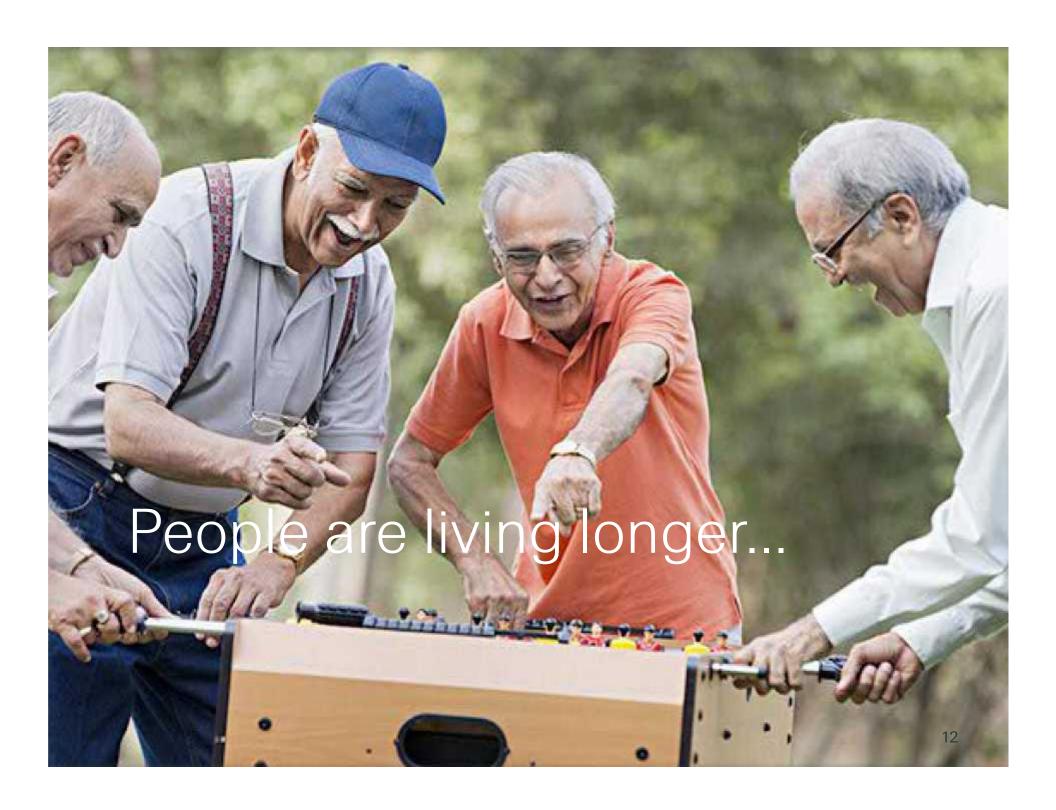
USD bn	Australia	China	нк	India	Indonesia	Japan	S Korea	Malaysia	Philippines	Singapore	Taiwan	Thailand	Vietnam	Total
2011F	0.2	3.2	0.3	2.2	0.1	1.4	0.4	0.1	0.1	0.1	0.3	0.5	0.1	9
2012F	0.5	4.7	0.3	4.2	0.9	3.4	1.6	0.1	0.2	0.1	0.5	1.1	0.2	18
2013F	1.8	7.3	0.4	6.5	1.3	9.6	2.8	0.2	0.3	0.1	0.7	1.6	0.5	33
2014F	2.6	12.2	0.5	10.2	2.0	17.4	4.5	0.5	0.4	0.1	0.9	2.2	0.6	54
2015F	3.9	18.4	0.6	14.2	2.8	24.2	6.1	0.9	0.6	0.1	1.2	2.8	0.6	77
2016F	4.3	30.5	0.7	18.1	3.5	23.2	7.5	1.3	0.9	0.1	1.5	3.5	0.6	96
2017F	4.5	40.1	0.8	23.2	4.5	23.8	9.2	1.8	1.2	0.2	1.9	4.2	0.7	116
2018F	6.2	46.5	0.9	29.2	5.5	25.4	11.7	2.5	1.6	0.3	2.3	5.0	0.9	138
2019F	7.4	60.4	1.0	36.0	6.6	27.0	14.0	3.0	2.0	0.6	2.8	5.7	1.1	168
2020F	8.2	73.0	1.1	43.6	8.0	28.7	16.7	4.1	2.5	0.6	3.2	6.5	1.3	197

**Note**: S1 is based on projections of economic growth, medical inflation and population growth; S2 is based on individual market's stable share of total health expenditure of GDP at 2010 level, except Hong Kong's case which assumes stable share at 2009 level



## The composition of healthcare expenditure across Asia-Pacific shows a material amount of "out-of-pocket" expenditure





## Living too long...

#### **Problems**

- People are living longer but they don't realise it
- Morbidity is generally deteriorating coupled with medical inflation
- Longer period spent in post-retirement years
- Smaller working age population supporting larger retired population

#### Consequences

- Cannot rely on subsequent generations to fund retirement
- Need to save more for retirement than ever before or postpone retirement
- Need to save more or take greater investment risks
- Difficult to rely on the financial support of children



## What can we do with mortality improvement and longevity risk?

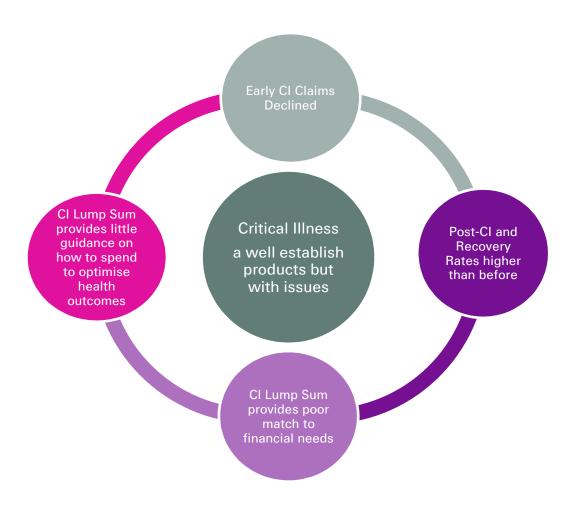
- There are needs in the market for post retirement products
  - Target the elder generation
  - Target the working generation as they prepare for retirement







## Building on success





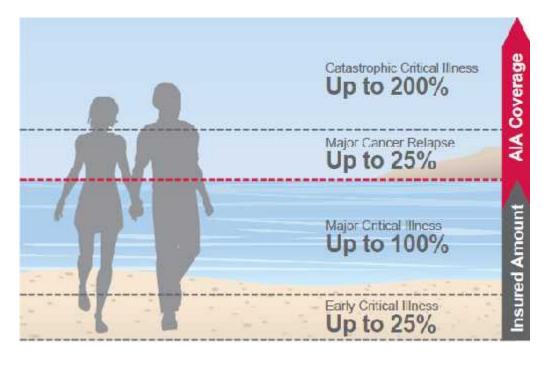
## Multi-pay Critical Illness – Hong Kong Example

Group 1: Cancer	Group 2: Illnesses related to the Major Organs and Functions					
1. Cancer	<ol> <li>Chronic Liver Disease</li> <li>End Stage Lung Disease</li> <li>Kidney Failure</li> <li>Major Organ Transplantation</li> <li>Severance of Limbs</li> </ol>					
Group 3: Illnesses related to the Heart	Group 4: Illnesses related to the Nervous System					
<ul> <li>7. Cardiomegaly</li> <li>8. Coronary Artery Disease Requiring Surgery</li> <li>9. Heart Attack</li> <li>10. Heart Valve and Structural Surgery</li> <li>11. Primary Pulmonary Arterial Hypertension</li> <li>12. Surgery to the Aorta</li> </ul>	<ul><li>13. Alzheimer's Disease</li><li>15. Benign Brain Tumour</li><li>17. Coma</li><li>19.Major Head Taruma</li><li>21. Multiple Sclerosis</li><li>23. Paralysis</li><li>25. Poliomyelitis</li></ul>	<ul><li>14. Bacterial Meningitis</li><li>16. Brain Surgery</li><li>18. Encephalitis</li><li>20.Motor Neurone Disease</li><li>22. Muscular Dsytrophy</li><li>24. Parkinson's Disease</li><li>26. Stroke</li></ul>				
Group 5: Other Major Illnesses						
<ul><li>27. AIDS due to Blood Transfusion</li><li>29. Blindness</li><li>31. Elephantiasis</li><li>34. Major Burns</li><li>36. Occupationally Acquired HIV</li></ul>	<ul><li>28. Aplastic Anaemia</li><li>30. Deafness</li><li>32. Fulminant Viral Hepatitis 33. Loss of Speech</li><li>35. Medullary Cystic Disease</li><li>37. Severe Rheumatoid Arthritis</li></ul>					



## Multi-Pay + Early - AIA Singapore

		Severity Level					
Cribcal Mness Group		Eany Circless Breess	Major Critical Biness	Catastropic Catocal Wesss Paymon Up to 200% of Franced Account			
Group	Griboal Minesa Category	Sryout up to 20% of brokers Zupours.	Parent Up to 100% or financed Amount				
Group 1	Cancer <sup>1</sup>	v	v	v			
	HIV due to Blood transitision and Occupationally Adjurent HIV		٠				
	Aplastic Anaemia		V				
	Major Cigan harisplant (Bono Marrow/Pantices)		٠				
Group 2	Strake		~	v			
	Heart Attack	~	V	V			
	Coronary Artery Surgery <sup>A</sup>	~	V				
	Other Senious Coronary Artery Bisease!	~	~				
	Kidney Fature		~				
	Heart Valve Surgery		~				
	Surgery to Aorta		~				
	Major Organ Transplant (Head/Kidney)		~	~			
Group 3	Fulminant Hepatitis						
	Lind Stage Liver Laitine						
	Major Organ Transplant (I Nor)						
Group 4	Chronic Long Disease		*				
	Pulmonary Hyperionsian		•				
	Major Organ Transplant/Lungs		· •				
Group 5	Multiple Sclerosis		*				
	Muscular Dystrophy						
	Alzholmer's Disease/Severe Dementia		V				
	Motor Neurone Disease						
	Parlamson's Disease						





## Hospital Cash & Surgical Cash - Japan

Company A Company B Company C Company D Company E **Hospital Cash**  $\sqrt{}$  $\sqrt{}$  $\sqrt{}$ Basic Surgical Cash **Benefits** Radiation Therapy  $\sqrt{}$ Advanced Medical 10 year renewable Female  $\sqrt{}$  $\sqrt{}$ Cancer 3 CI **Optional** 6 CI Long Term HC **Benefits** Outpatient  $\sqrt{}$  $\sqrt{}$ Accident  $\sqrt{}$ Discharge Death **No Claim Bonus** DI





### Annuities – the customer perspective

- Having a regular income for life is attractive and desirable
- Those who already have lifetime pensions are not complaining
- BUT opportunity costs are a major barrier
  - Significant loss of liquidity / flexibility
  - Bequest motive
  - Perceived as bad value for money due to low implied yield
     (a perception sometimes reinforced by the life insurance industry!)
- Living too long is perceived as a good problem to have



### Denial and procrastination

#### Denial

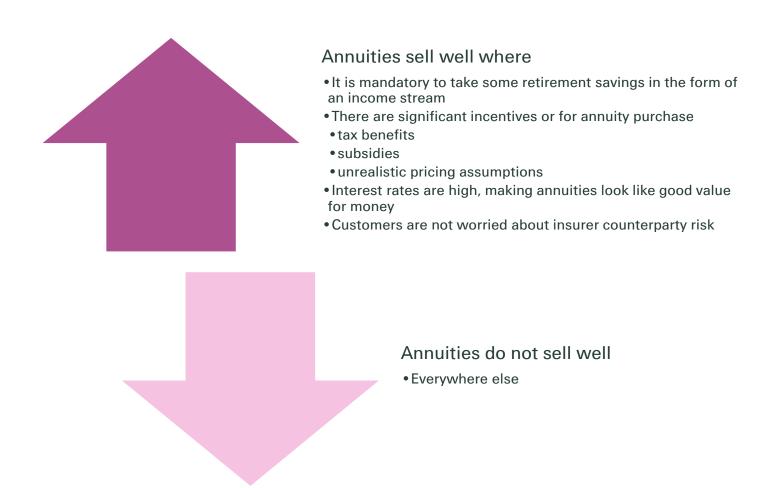
- Personal expectations about longevity are shaped by experience
- Today's generation saw their grandparents die in their 70s and their parents die in their 80s
- Do people imagine living to 90 and beyond?

#### **Procrastination**

- Money won't run out for 10 or 20 years so why do anything now?
- If the money starts running out, people can sell off assets or downgrade their lifestyle
- Hopefully children and family will be able to provide support
- Maybe the government will help
- Think about it later



### Customer behaviour



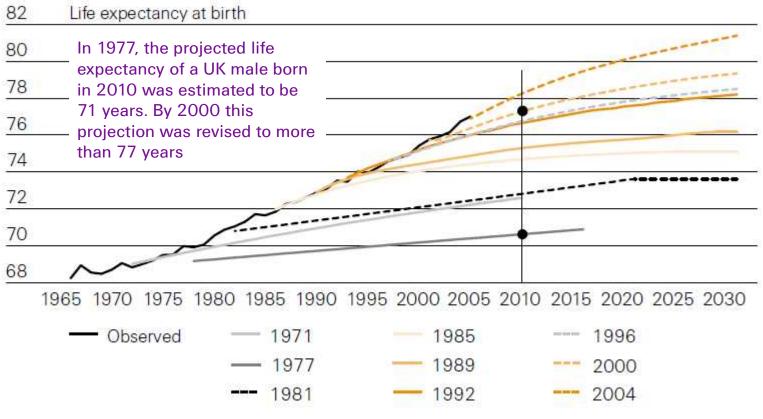


## Annuities – the (re)insurer perspective

People who People will think they live longer will live than they longer buy think annuities Forecasting Longevity is longevity is a very long difficult,duration risk Trend risk



## Life expectancy by experts



Source: Chris Shaw, "Fifty Years of United Kingdom National Population Projections: How Accurate have they been?", Population Trends, 128, Office for National Statistics, 2007



## Actuaries are always conservative... NOT

- Actuaries have consistently underestimated improvements in mortality
  - a(90) was based on UK 1967-70 experience projected to 1990, but a(90) mortality was reached in 1980
  - Actuaries use past experience to predict the future past performance is no guarantee of future results
  - Long time for deviations in mortality improvement trends to be recognised
  - Annuity and pension portfolios experience sudden large changes in liability values when new industry experience studies and tables are released



### **Expectations Gap**

**Annuity Price** 

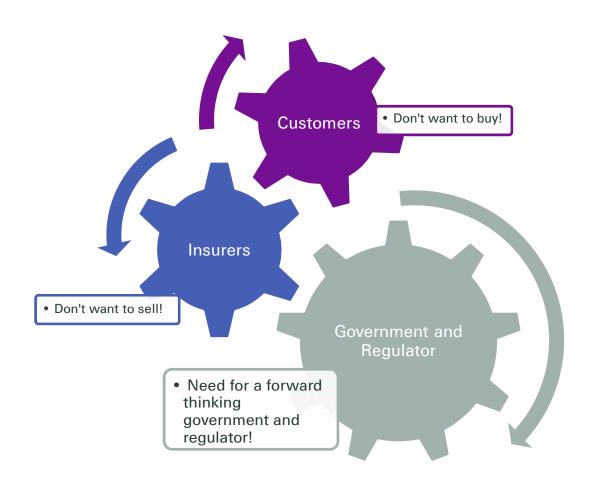


- Price at which customers are willing to buy longevity products
  - Underestimate life expectancy
  - Expectation of returns in excess of risk-free interest rates
  - Reluctance to lose liquidity
  - Lack of urgency to address longterm longevity risk
  - Desire to leave bequest

- Price at which insurers are willing to sell longevity products
  - Cautious after historic underestimation of life expectancy
  - Concerns about self-selection in voluntary annuity markets
  - Difficulty of finding assets of matching duration and security
  - Market-consistent valuation implies significant cost of guaranteeing returns above risk-free



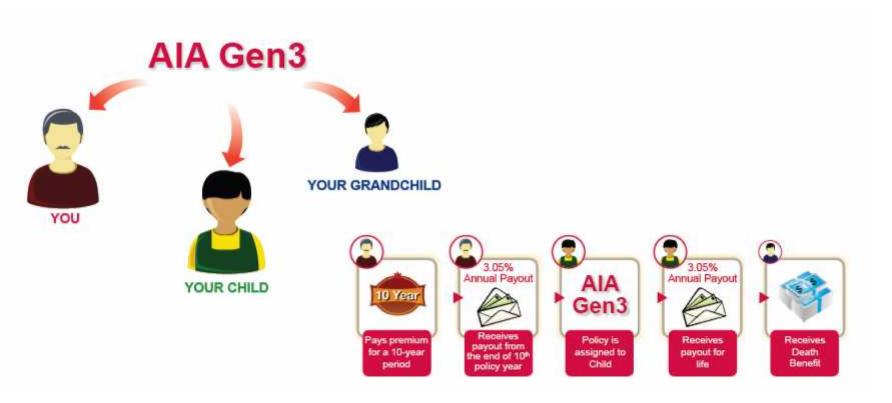
### Market failure





## Longevity Action in Asia - AIA Singapore

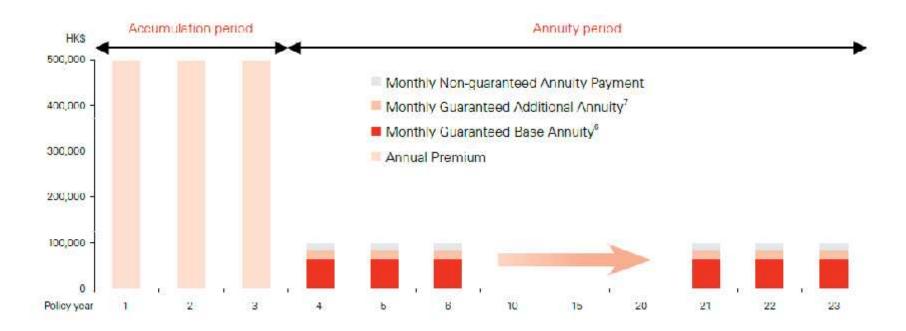
- Responding to mortality improvement and longevity risks
  - Singapore AIA Gen3





## Longevity Action in Asia - HSBC Hong Kong

- Responding to longevity risks
  - Hong Kong HSBC EarlyIncome Annuity Plan
  - HSBC identified the opportunity with longevity risk back in 2009 strategy days





## Product Idea from the UK – Underwritten Annuities

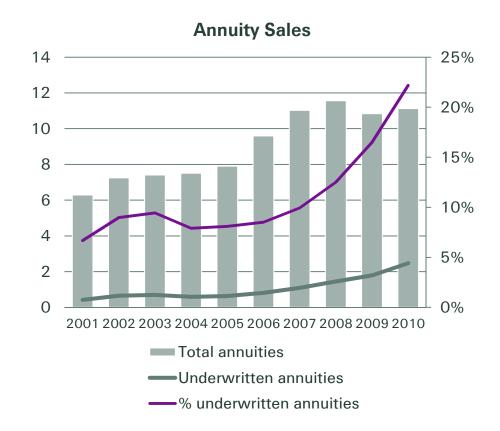
 Provide higher annuity payments to customers with reduced life expectancies, assessed on a variety of lifestyle and medical conditions





## Product Idea from the UK – Underwritten Annuities

- 2010 sales of £2.5bn (22.5% of market)
- Projections suggest underwritten annuity can reach 40% of total annuity market







### Does anyone buy LTC Insurance?

- In markets without government incentives or support, sales of LTC insurance are close to zero
- LTC sales are better in markets with government incentives or support
- Reinsurers have been trying to drum up interest in LTC since the 1990s with very limited success
- More effective growth strategy maybe to convince governments and stay aligned with government policy rather than marketing direct to consumers
- Alternative exposure to demographic drivers of LTC need via investments in nursing homes, assisted living facilities, etc



## **Customer Need for Long-Term Care**

LTC low on the The cost and financial / care priority list for burden of LTC is insurance under-appreciated protection Disability / unemployment of family member Death of family breadwinner or primary



### **Long-Term Care Conundrums**

## No ideal time for purchase

- Do not see the need when they are young
- Cannot afford it and difficult to underwrite when they are old

## Dependence on government action

- Do not see the need for LTC unless the government is providing encouragement (eg through the provision of government-funded LTC)
- If the government is providing LTC, difficult to see the need for purchasing additional LTC cover

#### **Cultural barriers**

- Tradition and obligation dictates that elderly parents are cared for by family, so LTC purchase is an admission that family and children will not provide care
- Issues relating to familial obligations need to be addressed with sensitivity

## Difficult to match claims trigger with expenditure pattern

- For wealthy families who can afford insurance cover, major LTC financial outlay is the initial deposit required to get into a "good quality" nursing home
- But nursing home entry has a "voluntary" component that does not necessarily correlate with LTC/ ADL claim triggers
- Initial nursing care assistance may be required long before ADL failure, but difficult to identify sufficiently objective triggers for early LTC claim



#### Potential LTC Products

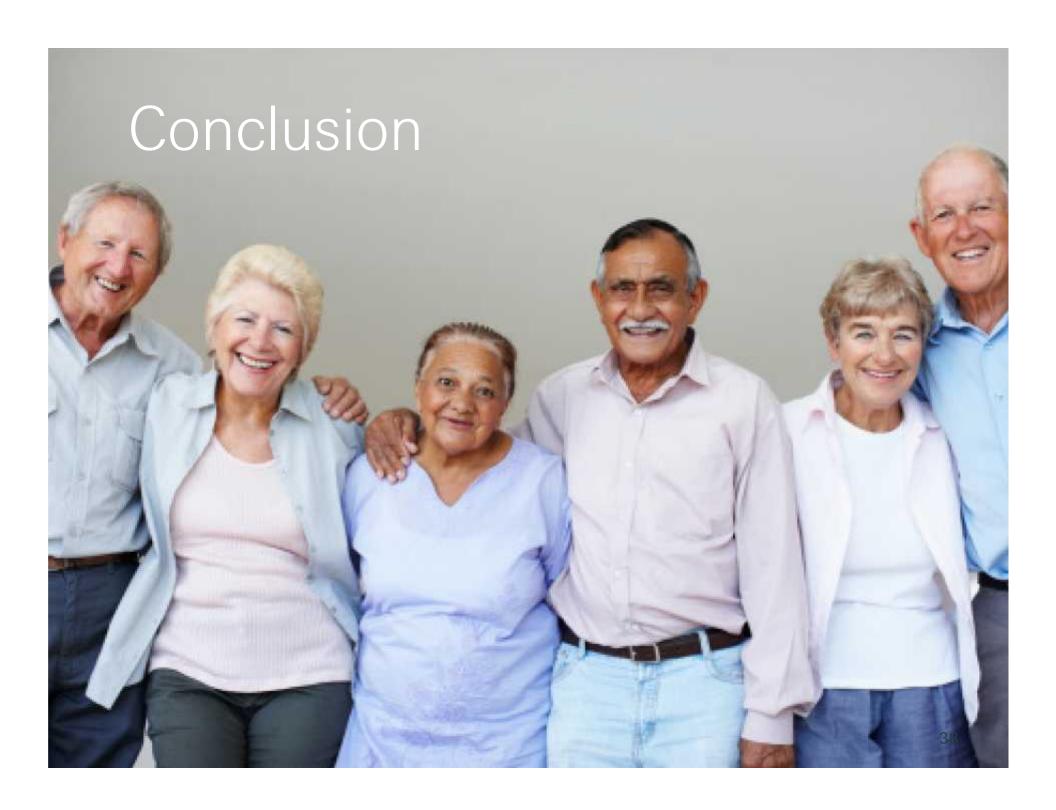
Supplemental to government LTC provision

- Japan, Korea, Singapore have government-sponsored LTC
- Supplemental LTC products in these markets viable from a sales perspective

Death and LTC "Combo" products

- Markets where awareness of LTC is low
- LTC income benefit paid as acceleration of Death benefit
  - 2% per month for up to 50 months upon ADL failure / Cognitive Impairment
- Appeal to ageing population
- "Combo" structure to overcome concerns that benefits might never be needed





## **Products for Ageing Risk**

? I am living longer than I expected!!

? I couldn't afford insurance when I was young, can I get some now?

? I am living longer than I expected – do I have enough savings?

Guaranteed
Issue Whole Life
/ Funeral Plans

Multiple Pay Medical or Health Coverage Up-selling
Existing
Policyholders
with GI / SI

Limited Pay
Whole Life /
Long Term Rate
Guarantee

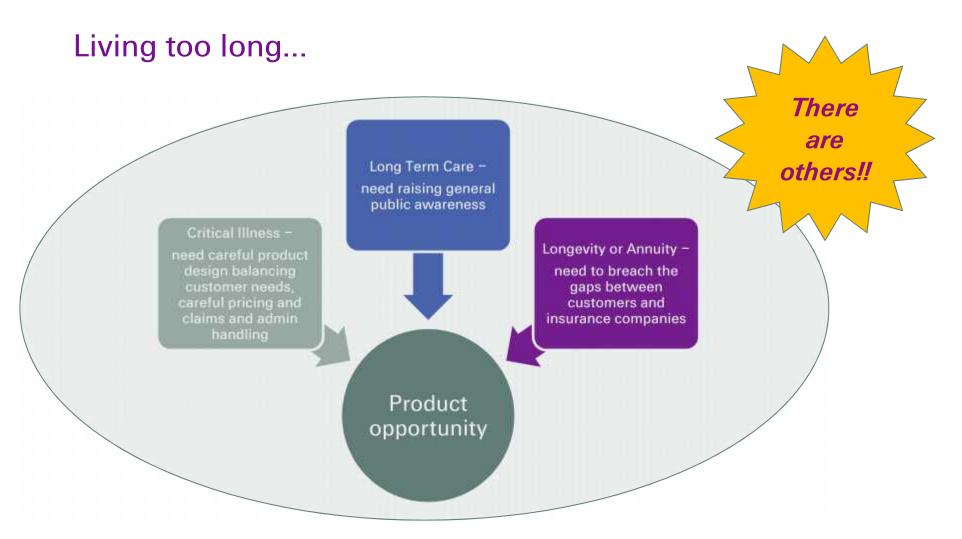
Annuity, lump sum or regular payment



## What else? The post retirement conundrum

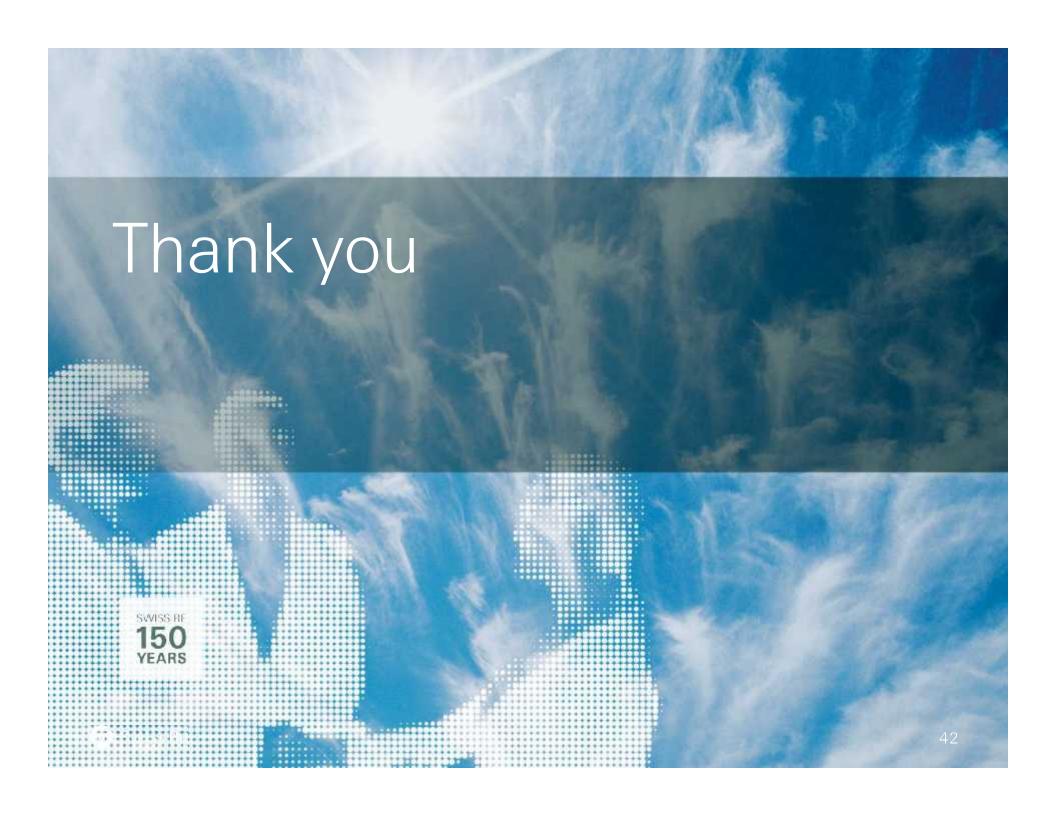
- Most people are better at saving than providing protection for their families
- Most people will have a pension pot or savings pot accumulating for their use at retirement
- Many people are unsure about how long they will live, what their costs of living will be as well as what their medical expenses bills will be (particularly if they will suffer from cancer or need long term assistance and families may not be willing or able to provide)
- There are some pre-retirement products which deliver some whole of life coverage, and there are limited products available at and after retirement
- Is there an opportunity for us to design **new** post retirement coverage products to access savings at retirement (or in the accumulation phase)
   which remove or reduce the **combined** uncertainties individuals face?

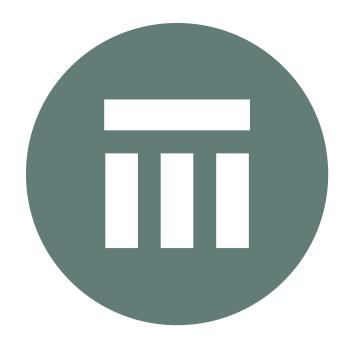




In all cases the support from a forward thinking government and regulator is vital in the success of these products.









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