

### **Disclaimer**

The information provided in this presentation does in no way whatsoever constitute legal, accounting, tax or other professional advice.

While Hannover Rückversicherung AG and Partnership Life Assurance Company Limited have endeavoured to include in this presentation information they believe to be reliable, complete and up-to-date, the companies do not make any representation or warranty, express or implied, as to the accuracy, completeness or updated status of such information.

Therefore, in no case whatsoever will Hannover Rückversicherung AG and Partnership Life Assurance Company Limited and their affiliate companies be liable to anyone for any decision made or action taken in conjunction with the information in this presentation or for any related damages.

© 2010 The Actuarial Profession • www.actuaries.org.

- Demographic trends
- Long term care funding systems excluding UK
- Private long term care products excluding UK
- The UK system and Dilnot

© 2010 The Actuarial Profession • www.actuaries.org.

# Demographic Trends Population UK Population UK Demographic Trends Population UK Population UK Population UK Population UK Expected increase of population by 13% Number of people aged 65+ expected to increase by 62% (from 10.3 m to 16.8 m) Number of people aged 80+ expected to increase by 121% (from 2.9 m to 6.5 m) But also increase in generation < 40 by 4% Source: US Census Bureau Source: US Census Bureau

### **Demographic Trends**

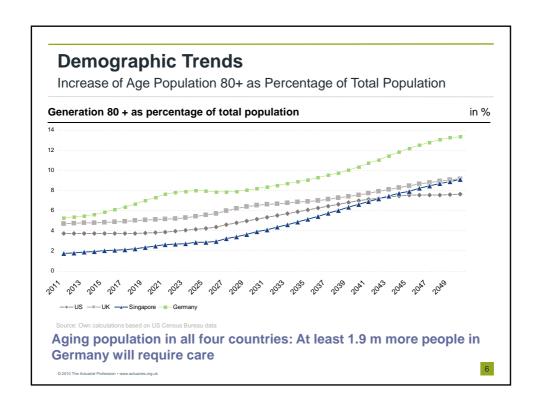
Prognosis for 2050

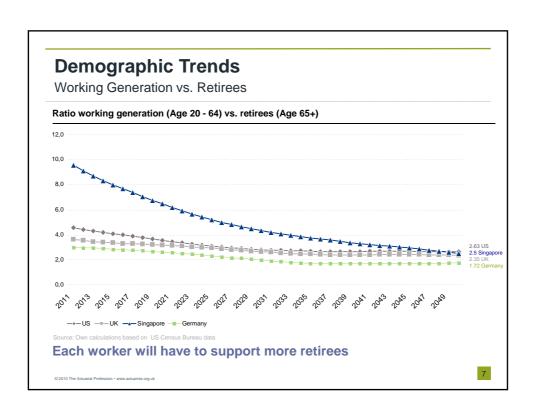
	UK	US	Germany	Singapore
Expected increase in total population	13%	36%	-12%	64%
Expected increase in generation 65+	62%	111%	28%	432%
Expected increase in generation 80+	121%	177%	121%	761%
Expected increase in generation < 40	4%	29%	-17%	9%

Source: US Census Bureau

# **Demographic Trends**Life Expectancy at Birth

	2011	2020	2030	2040	2050	Increase (in years)
US	78	80	81	82	83	5
UK	80	81	82	83	83	3
Singapore	83	86	88	90	92	9
Germany	80	81	82	83	83	3





- Demographic trends
- Long term care funding systems excluding UK
- Private long term care products excluding UK
- The UK system and Dilnot

© 2010 The Actuarial Profession • www.actuaries.org.u

### **Germany: Long Term Care System**

- (Almost) compulsory state LTC insurance
  - Contribution: 1.95% of gross income, 0.25% in addition for those without children
- Eligibility:
  - People who (are expected to) need assistance with regard to Activities of Daily Living (ADL) for at least 6 months due to a physical or mental illness
- ADL covered:
  - Personal hygiene (e.g. bathing, dental hygiene, toileting)
  - Feeding
  - Mobility (e.g. getting in and out of bed, dressing, walking, leaving the flat)
  - Housekeeping (e.g. shopping, cooking, cleaning)
- Consistent assessment by the Medical Review Board across the country

### **Germany: Long Term Care System**

- · Level of care
  - Level I
  - At least 90 min./day of assistance with regard to ADL necessary (45 min. for basic care)
  - \_ | | | | | | | | |
  - At least 180 min./day of assistance with regard to ADL necessary (120 min. for basic care)
  - Level III
  - At least 300 min./day of assistance with regard to ADL necessary (240 min. for basic care)
  - Severe cases require care far beyond Level III
- State LTC insurance participates in expenses for
  - Aid for care, e.g. walking aid, wheel chair
  - Domestic and residential/nursing care
  - Cash benefits for informal care givers

© 2010 The Actuarial Profession • www.actuaries.org.ul



### **Germany: Long Term Care System**

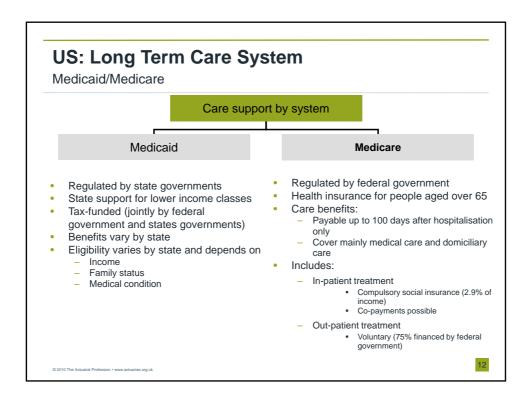
Maximum State Benefits per Month from 1st January 2012 on

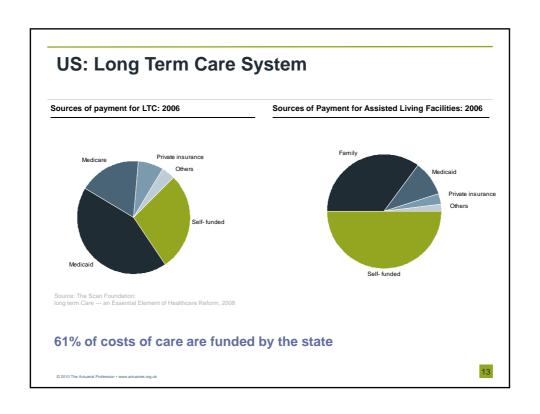
Level	Care cost [EUR]	Housing cost [EUR]	Other expenses [EUR]	Contributio n by state [EUR]	Co- payment [EUR]
I	1,416	561	356	1,023	1,310
II	1,786	561	356	1,279	1,424
III	2,276	561	356	1,550	1,643

- Maximum state benefits for Level I and II in domestic or intermediate nursing care 450 EUR and 1,100 EUR resp.
- For people suffering from mental diseases (i.e. dementia) additional benefits up to 2,400 EUR per year are possible

Costs of care exceed state benefits by more than 100 %

Source: AWO Care Home in Hannover
© 2010 The Actuarial Profession • www.actuaries.org.uk





# Singapore: Long Term Care System Central Provident Fund (CPF) Retirement Health Care Ordinary Account: e.g. housing, investment LTC (ElderShield) Central Provident Fund Compulsory regular contribution by employers and employees based on % of income 2002: Launch of ElderShield fund for all Singaporeans at age 40 and above Almost compulsory scheme (opt out possibility only within three months after reaching age 40) Initially two private insurers appointed to run ElderShield (NTUC Income and Great Eastern Life) 2007: Renewal of ElderShield In addition to NTUC Income and Great Eastern Life, a third insurer, AVIVA, is now allowed to issue ElderShield policies

### **Singapore: Long Term Care System**

- Disability measured by 6 ADLs:
  - Mobility, feeding, transferring, dressing, bathing, toileting
- Auto-Cover at age 40, maximum entry age at 69
- · Basic coverage:

	Benefit	Duration
ElderShield (before 2007)	SGD 300 (+150 GBP) per month	60 months
ElderShield (after 2007)	SGD 400 (+150 GBP) per month	72 months

- Members are eligible for payouts if not able to perform three or more ADLs
- Extended long term care benefits available from ElderShield providers on private basis since 2007

D 2010 The Actuarial Profession • www.actuaries.org.u

15

- Demographic trends
- Long term care funding systems excluding UK
- Private long term care products excluding UK
- The UK system and Dilnot

© 2010 The Actuarial Profession • www.actuaries.org.ul

### 16

### **Germany: Private LTC Insurance Products**

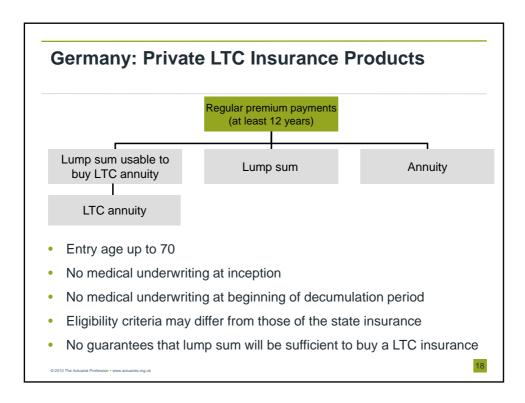
### Product provided by life insurers

- Care annuity
  - "Pflegerentenversicherung"
  - Regular premium or single premium
  - Benefits:
    - 100% of insured annuity in case of Level III
    - 50% of insured annuity in case of Level II
    - 25% of insured annuity in case of Level I
    - Additionally: lump sum of 6 monthly annuities at first claim
    - No waiting period
  - Underwriting necessary

### Products provided by health insurers

- Care expenses insurance
  - "Pflegekostenversicherung"
    - Covers up to 100% of actual costs of care not covered by state payments
    - Covers only incurred expenses for eligible services
    - Housing and boarding costs sometimes excluded
  - In general no waiver of premium during claim period
  - Adaption of premium possible
- "Pflegetagegeldversicherung"
  - Payment for each day of care, independent of the service provided
  - Benefit can depend on level of care
  - In general no waiver of premium during claim period
  - Adaption of premium possible





### **US: Private LTC Insurance Products**

LTC Insurance

### Comprehensive LTC insurance

- Covers care in a variety of settings, e.g.:
  - At Home, at Adult Day Service Centres,
     Assisted Living Facilities, Nursing Homes
- Benefits payable as:
  - Reimbursement: incurred expenses
  - Indemnity: fixed amount for received service
  - Cash benefit: fixed amount
- · Benefit payments: months up to lifetime
- Elimination periods of 30, 60, 90 days
- Inflation protection offered

### Non-comprehensive LTC insurance

- Restricted to facilities such as nursing homes
- Benefits payable as:
  - Reimbursement
  - Indemnity
- Benefit payments: months up to lifetime
- Elimination periods of 30, 60, 90 days
- Inflation protection offered

Most policies sold: comprehensive cover, reimbursement, limited duration and elimination period included



### **US: Private LTC Insurance Products**

### Reverse Mortgage

- Available for people aged 62+
- · Home equity loan against the value of the house
  - Payable as lump sum or monthly income
- · Repayment at death or moving out
- Income (as long as spend in the month of receiving)
  - Not taxable
  - Not countable towards Social Security and Medicare benefits or Medicaid eligibility

© 2010 The Actuarial Profession • www.actuaries.org.u

### 20

### **Singapore: Private LTC Insurance Products**

- Additional benefits for ElderShield members
  - Increased monthly annuity
  - Extended durations (up to life time)
  - Lump sum upon first claim to cover initial expenses
  - "Get Well" and death benefits
  - Increased benefits payable for 36 months for beneficiaries with children
  - Waiver of premium during claim period
  - Possibility to soften eligibility conditions: two ADLs instead of three
- Stand alone private LTC:
  - Include some benefits similar to those providers involved in ElderShield, but
    - membership in ElderShield fund not necessary
    - may cover advanced cases of dementia as well
    - cover some medical treatment and hospitalization expenses up to age 85
    - are addressed to children to care for their parents

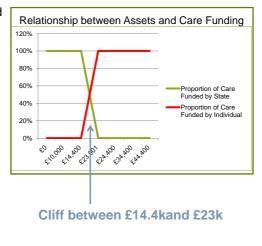


- Demographic trends
- Long term care funding systems excluding UK
- Private long term care products excluding UK
- The UK system and Dilnot

© 2010 The Actuarial Profession • www.actuaries.org.u

### The UK - Today

- Care costs subject to means tested system
- First £14k of assets disregarded
- Beyond £23k of assets 100% "self funded"
- Entitlement determined at Local authority level
- Subject to Dilnot Report
- Reviewed by Law Commission
- White Paper "Due in Spring"



### The UK – Key issues with present system

- Postcode lottery
  - Cost of Care
  - Level of LA support
- Huge variability of outcome
  - 25% of people die having needed no Care
  - Average stay 2.5 years at £35k
  - Average Private payer stay nearly 4 years
  - 10% of Private payers live 8 years or more
- Littered with Perverse Incentives
  - Domicilliary v Residential
  - Deliberate Deprivation

© 2010 The Actuarial Profession • www.actuaries.org.uk

### 24

### The UK - Insurance Products

Characteristic	Immediate Needs Annuities ("INAs")	Pre-Funded Insurance
Target Consumer	85, Self Funder, In Care	50-75, Likely to be Self Funder, Healthy
Premium	Single, Typically £100k	Single and/or Regular. £25k or £250pcm
Claim	Annuity, paid for life. Often with money back option on early death	ADL Failure assessed by insurer
Tax Basis	Tax Free	Tax Free (if written as PHI)
Actuarial Considerations	Estimating number of months an 85 year old with medical conditions will live	Claim Inception, Claim Duration, Investment return, Expenses, Selection

Characteristic	Immediate Needs Annuities	Pre-Funded Insurance
Denial ("The need for Care will never happen to me")	No – In Care	Yes – Claim Probability between 1:3 and 1:5
Prioritisation an issue ("Spend on today's need and let tomorrow happen")	No – Care is today's need	Yes – Few consumers choose to defer consumption to insure against very uncertain risk
Complex	No – Tax Free Annuity	Yes – combination of insurance and investment product with complex claim rules
Subjectivity	No – terms known and paid until death	Yes – reviewable premiums and ADL failure assessed by insurer
Insurable Risk	Yes – Subject to data to underwrite	Probably not – 50 year perspective on health, investment and expense risk, Not sure what cover is needed

# The UK – Why Are there no Prefunded Products Any More?

- Sold in modest volumes in mid to late 90's
- Reviewable unit linked or quasi-unit linked contracts
- Premiums were inadequate
  - Investment returns fell sharply (Fixed Interest)
  - Claim costs far higher than expected
- Led to Large Premium reviews (30-40%)
- Consumers lapsed or reduced cover
- IFAs lost confidence
- Last plan withdrawn from sale in 2010

D 2010 The Actuarial Profession • www.actuaries.org.u

### The UK - Tomorrow......

- Andrew Dilnot reviewed system for Government
- · Key recommendations:
  - Nationalised assessment and entitlement
  - Nationalised information and advice service
  - Care costs split into Residential and Personal Care
  - Individual pays all residential costs
  - Individual pays first £35k of Personal Care
  - Government pays Personal Care at basic level over £35k
  - Disregard moved to a varying proportion up to £100k
- Estimated Cost an incremental £1.5bn in 2012
- Doubling by 2030

© 2010 The Actuarial Profession • www.actuaries.org.u

### The UK - Dilnot in Graphs! Lifetime Care Costs for a Self Funder Pre and Relationship between Total Assets and Care Funding Post Dilnot 300000 100% 250000 200000 Proportion of Care Funded by State 60% 40% Proportion of Care Funded by Individual 160000 100000 50000 1 2 3 4 5 8 7 6 Year Red area shows new No longer a cliff at £23k **Government funding**

### The UK - Tomorrow......

- Proposals went some way to addressing issues
  - National Assessment System
  - Provision of advice
  - Equalised Domiciliary and Residential
  - Reduce incentives for deliberate deprivation
- But not without challenges
  - Leave majority of cost with individuals
  - Very complex to implement
  - Potentially unacceptable cost to treasury
- Key Winners
  - Those with assets between £23k and £100k
  - The very wealthy

© 2010 The Actuarial Profession • www.actuaries.org.u

### The UK – A Crystal Ball

- White Paper due in the Spring
- · Not clear what will be in it
- · A prediction on where the White Paper finishes
  - Will adopt the zero/low cost changes
    - increase disregard
    - information and advice
    - nationalised assessment
  - The more expensive ones go into the long grass
    - capping personal care costs
    - moving disregard materially
  - Another review with a different brief in the next five years

## The UK – What Should the Insurance Industry Call for

- · Support nationalised assessment
- Support increased information and advice
  - Must include Financial Advice
- · Accept consumers won't prefund specifically for care
- Key is consumers saving an adequate amount
- Work with Government to drive pension saving
- Work with Government to challenge mindset re housing wealth
- Improved flexibility on decumulation options
- Disregard linked to secure insured income