

The Retirement Village Industry-Opportunities for Actuarial Improvement

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Go for Go C





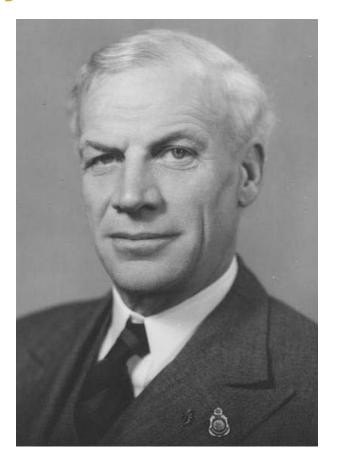
- History
- Market
- Participants
- Legislation
- Product
- Taxation
- Accounting

- Actuarial
- Current practice
- Ideal practice
- Experience
- Practicalities
- Assumptions
- Insights



History

- 1954 Act
- 1974 withdrawal
- Private sector



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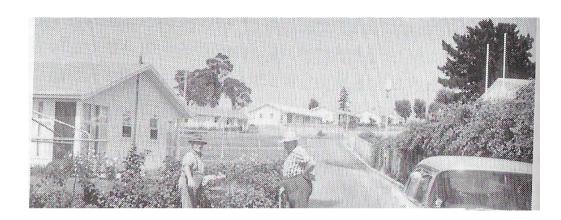
Market

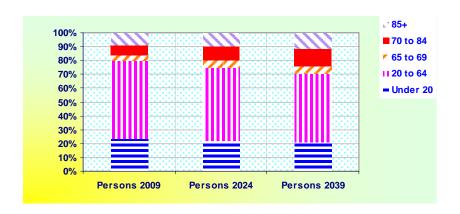






- Subsets
- Penetration
- Future

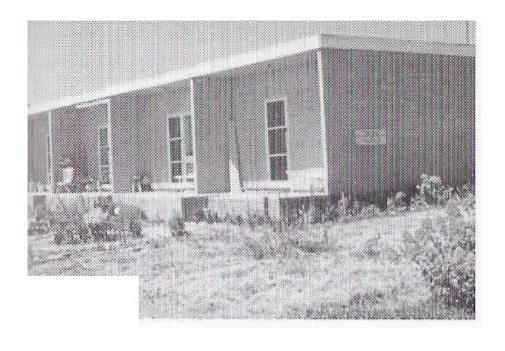








- Tenure
- Contract
 - Recurrent
 - Capital
 - Other care level
- Quality





Participants

- Developers
- Family companies
- Church & charitables
- Corporates



Legislation

- States
- Responsible Minister
- Common features
 - Registration
 - Disclosure
 - Cooling off
 - Recurrent expenses
 - Disputes



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• Income

	Pre 1994	1994	2002
Land	Not deductible	Deductible	Not deductible
Construction	Depreciable	Deductible	Depreciable
Interest paid	Deductible	Deductible	Deductible
Incoming payments	Not assessable	Not assessable	Not assessable
Rental / DMF	Accrual	Receipt	Accrual / receipt

• GST







- Standards
 - **-** 7
 - -132
 - -139
- Auditors
 - Discount receipts
 - Undiscounted liabilities



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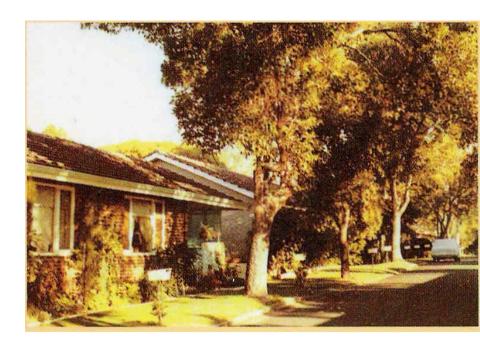
Actuarial

- Known but uncommon
 - Multiple decrements
 - Last survivors
- Differences
 - TVFPV Cashflow /(1- A')
 - Case Shiller

$$Ln(Price_{x+t} / Price_x) = \sum a_i z_i$$

 $a_i = Ln(index_i)$ z uniformly 0 except

$$Z_{x+t} = 1 Z_x = -1$$





Current valuation practice

- Who
- Global exits
- Standard life tables
- No voluntary exits
- Last survivors
- Terms certain





Ideal practice

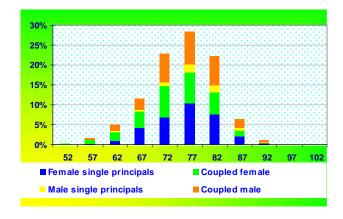
- Contracts
- Entry experience
- Exit experience
- Value growth
- Assumptions
- Individual calc's
- Sensitivity
- Reconciliation

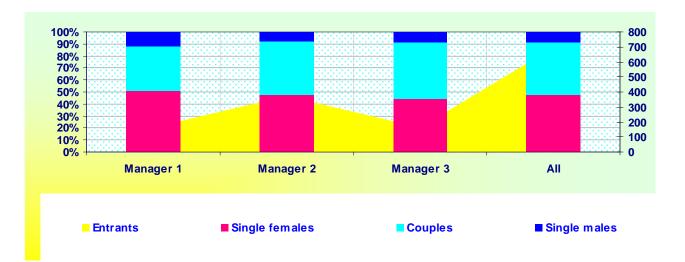




Experience

- Source
- Entry distribution
 - Average
 - Trends
 - Differences

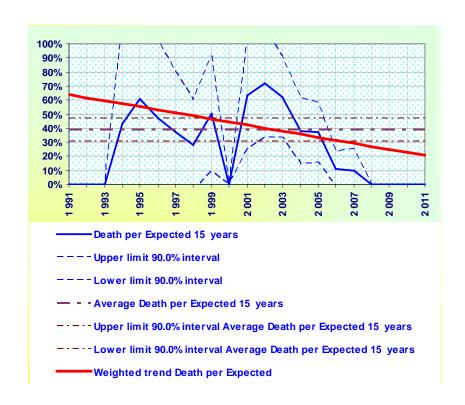








- Exit distribution
 - Involuntary
 - Voluntary
 - Trends
 - Differences

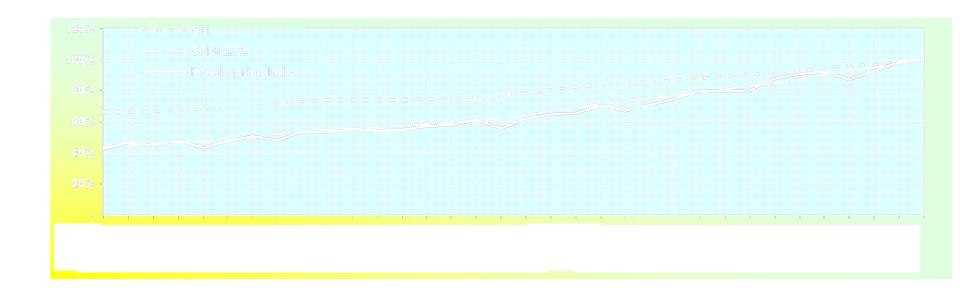








Value growth









- Difficulties with commutation columns
 - Duration related
 - Last survivors
 - Reuse of unit
- Each unit each year under macro
 - Payments
 - Probabilities
 - Present values

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Assumptions

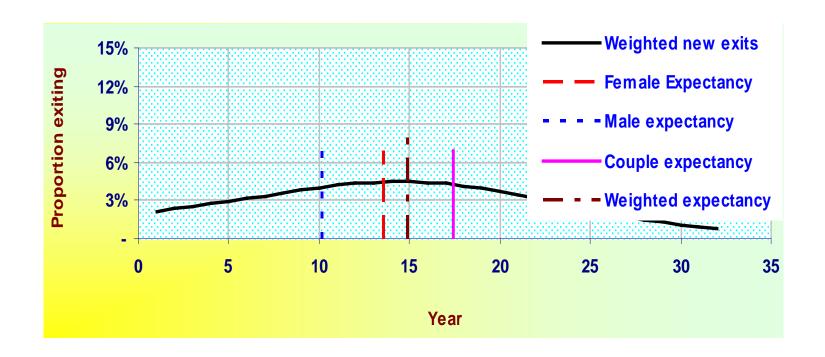
- Entry
 - Single F 48% aged 76
 - Single M 9% aged 77
 - Couple 43% F 74 M 76
- Exits involuntary
 - F Death 29% ALT
 - M Death 54% ALT
 - M Other 32% ALT
 - F Other 22% ALT

- Exits voluntary
 - 1.9% per annum
- Value growth
 - CPI + 5% pa
- Discount rate
 - 10% pa
- Contract
 - DMF 4% realloc to 28%
 - 5% refurb
 - 0.25% realloc pa maint





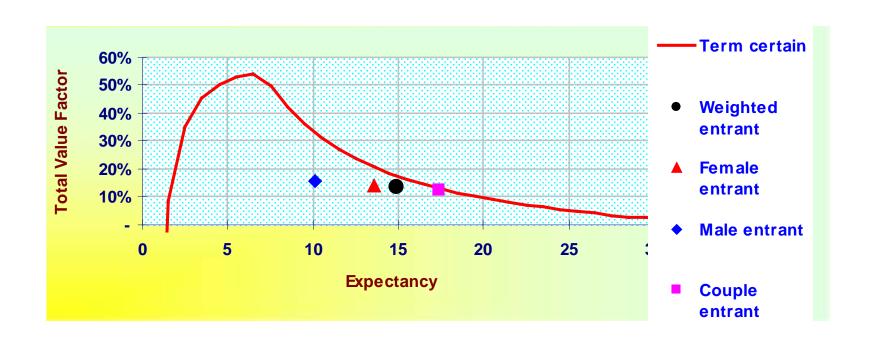
Exits have a distribution, not a number







Consequences of distribution (TVF)







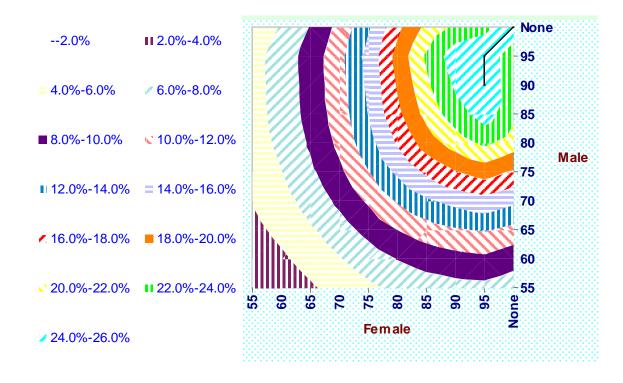
Curve of PV of payments





Insights (4)

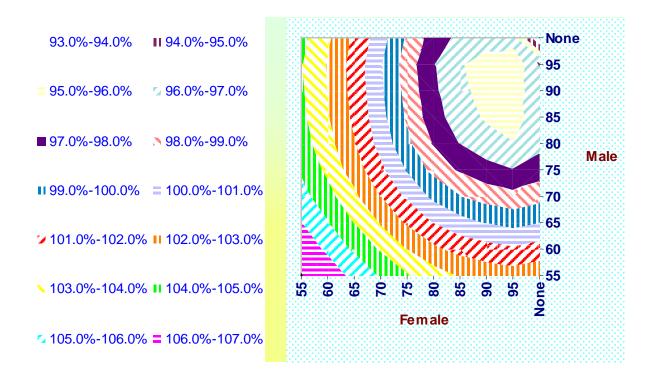
Use TVFs for targetting





Insights (5)

Individual sales by age



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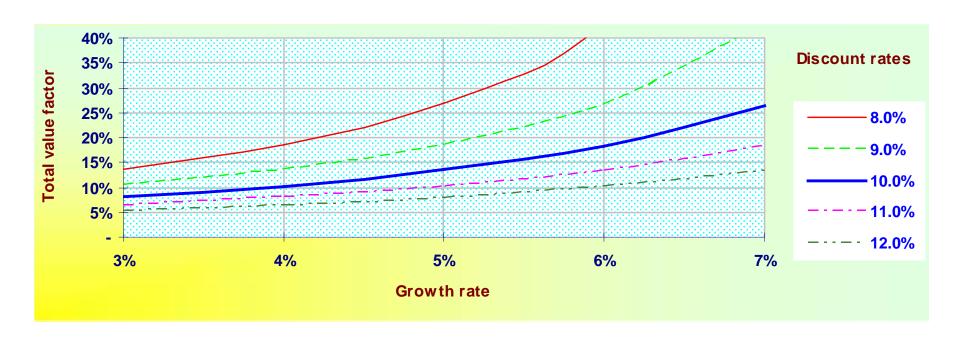


- Base
- Lower discount
- Slower exits
- × Higher discount
- Faster growth
- Slower growth
- **More couples**
- Younger entrants & more couples
 Term certain

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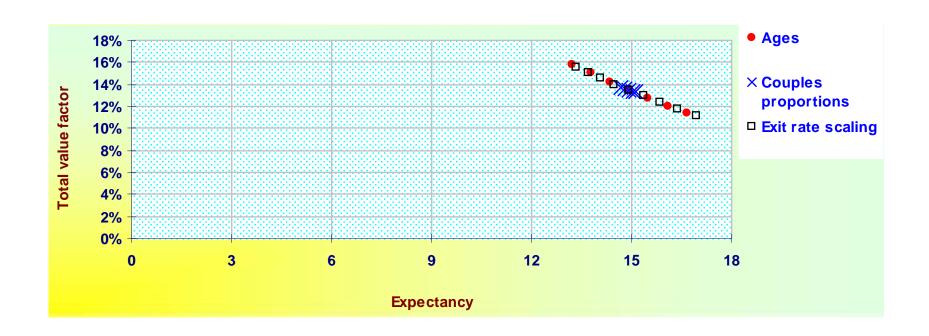


















 Cash flow is for capital valuations, not annual budgets







- Residents
- The profession
 - Has lost ground
 - Knows demography
 - Understands distributions
- Where now?

Biennial Convention 2009

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