



Institute of Actuaries of Australia

CTP Insurance in Australia

*A Challenging Business for
Actuaries and Management*



Deloitte.

Today's presentation

- **The CTP environment in Australia**
- **Key drivers of CTP experience**
- **Actuarial contribution**
- **Challenges for management and actuaries**

CTP Insurance

- In Australia motor insurance, the physical damage and bodily injury components are covered by two separate policies
- CTP Insurance is the compulsory third party bodily injury cover attaching to motor vehicle registrations
- Own damage and third party property damage covers are provided by private insurers

Different CTP schemes operate in each State and Territory

Jurisdiction	Privately Underwritten	Common Law	No-Fault
New South Wales	✓	✓	
Queensland	✓	✓	
South Australia		✓	
Western Australia		✓	
Victoria		✓ Serious injuries only	✓
Tasmania		✓	✓
Northern Territory			Non-residents Residents

The Regulatory Environment

- **Federal Regulator (APRA) oversees general insurance industry**
 - **Approved Actuary**
 - Statutory reserving responsibility
 - Minimum reserving standard (75% sufficiency)
- **NSW & Queensland – State regulators**
 - Licence insurers for CTP
 - Oversee premium setting
- **Trade Practices (Federal)**
 - Competitive behaviour
 - Consumer protection

NSW: Pricing Regime (1)

- Premiums must be *fully funded*
 - Best estimate of cost of claims + anticipated investment income
 - Expenses + levies
 - Profit margin to provide “adequate” return on capital + compensation for risk taken
- Certified by an actuary and formally signed off by CEO

NSW: Pricing Regime (2)

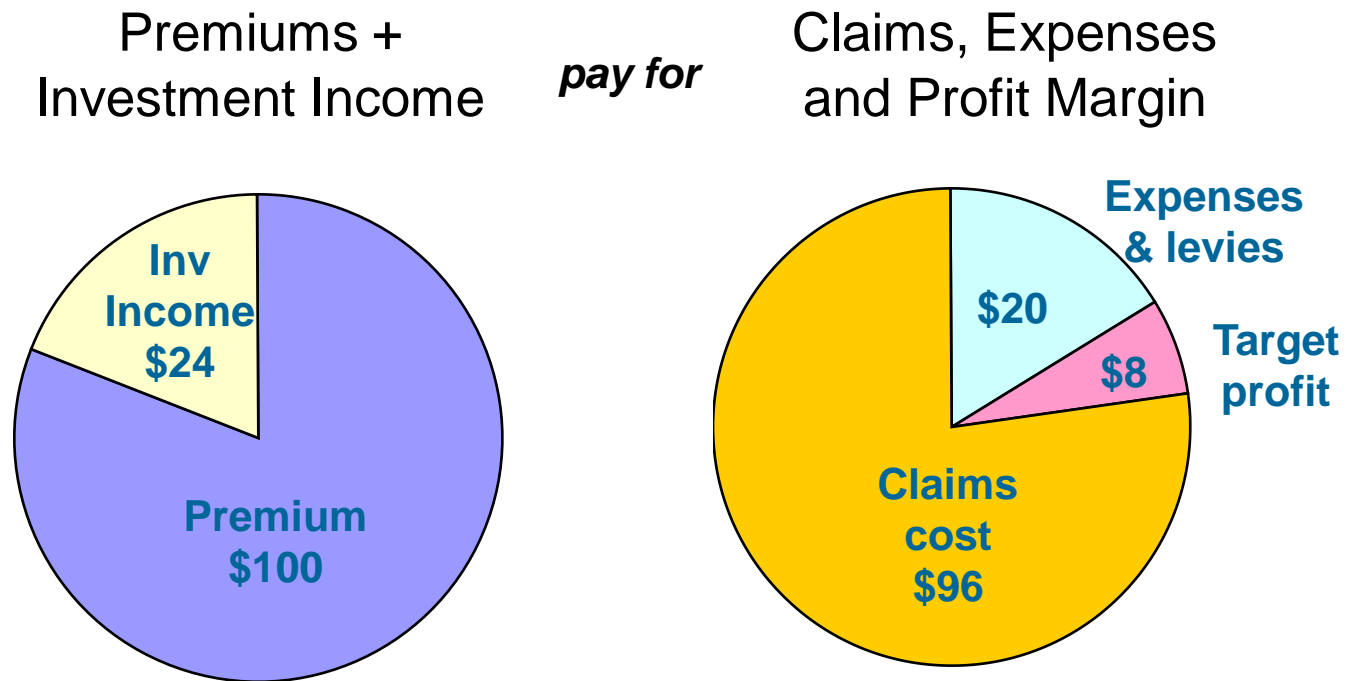
- Insurers must “file” in accordance with regulator’s guidelines at least once per year
- Restricted competitive freedom to vary premiums
 - Premiums vary by class of vehicle and district
 - Insurers may use additional rating variables (other than postcode) but maximum discounts and loadings apply
- No scope for “catch up” of past losses – each filing period must stand on its own

Queensland: Pricing Regime

- **More centrally controlled premium setting process than in NSW**
- **Each quarter, regulator (based on independent actuarial advice) sets a floor and ceiling premium**
- **Each licensed insurer then files at a premium within this range**

Where does the premium \$ go?

- Total premium calculation per \$100 premium

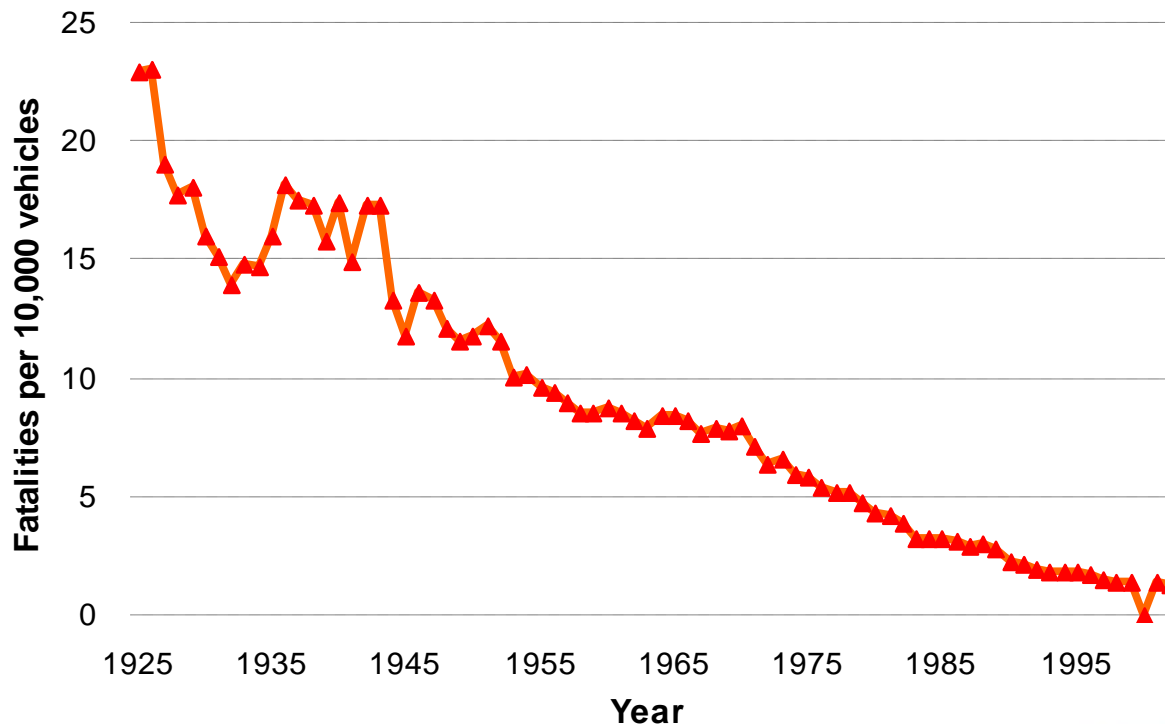


Key Drivers of CTP Experience



Road Casualty Trends

- Establishes underlying base of potential claimants
- Long-term improving trend in fatalities

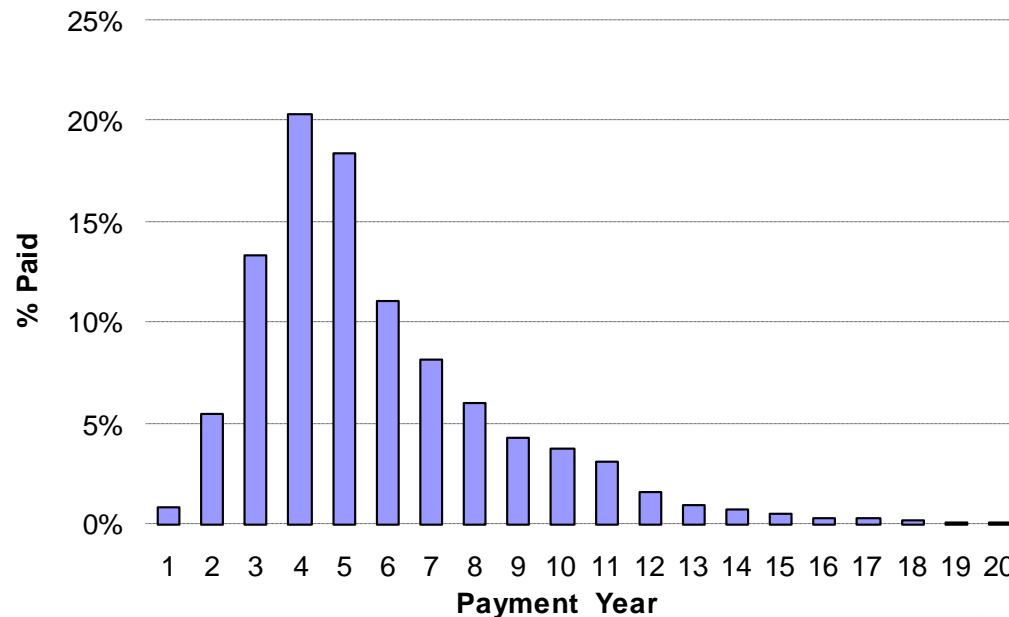


Advances in Medical Technology

- **Increased likelihood of surviving the accident**
- **Lengthening post-accident life expectancies for seriously injured**
- **Comes at a cost due to medical cost inflation**

Common Law Environment

- **Precedent-based**
 - “new” judicial decisions apply to all outstanding claims
 - Compounds potential impact on reported profits
- **Inherent delays to settlement**
 - Generates a long tail



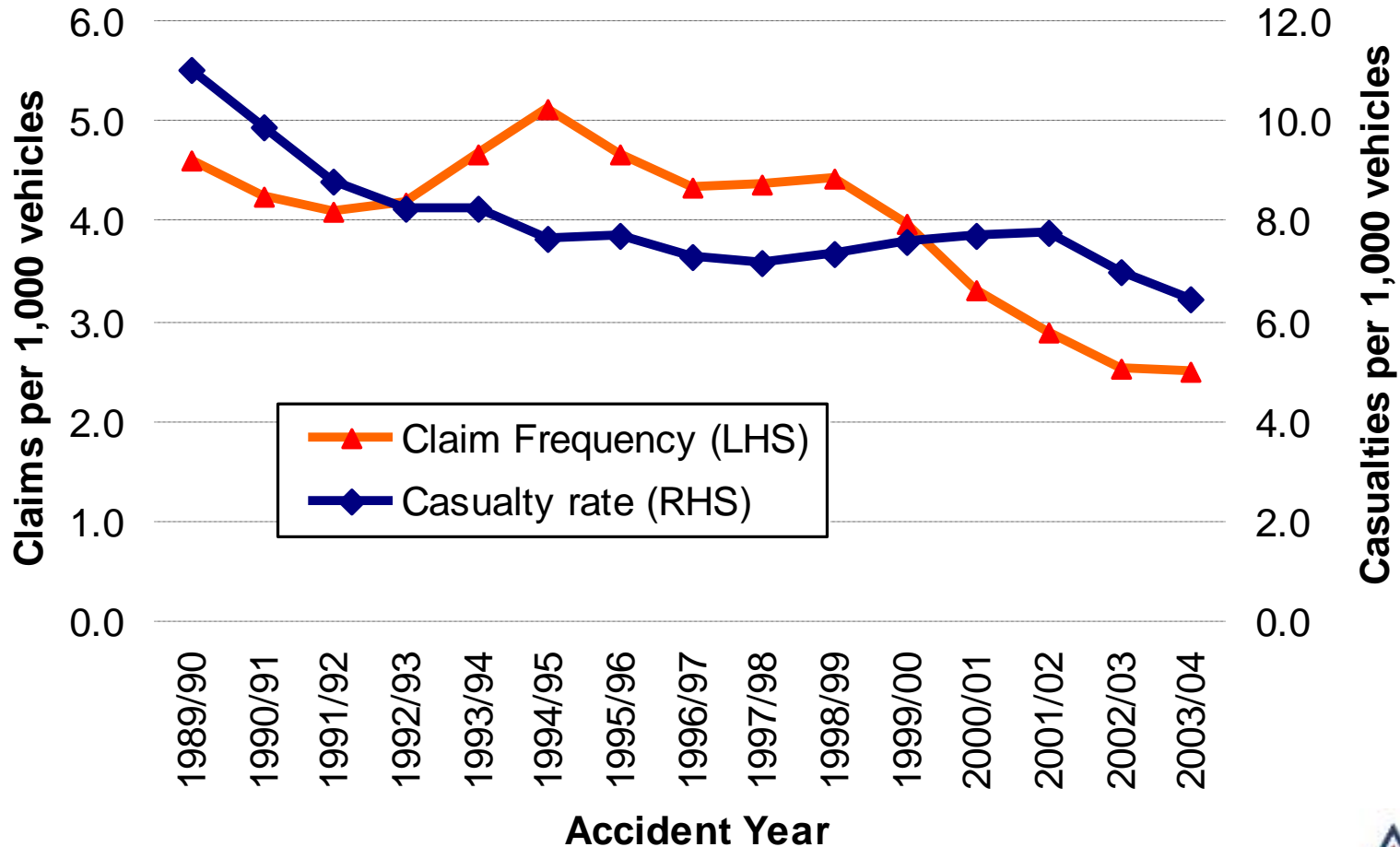
Attitudes of Key Stakeholders

- **“Attractiveness” of making claim for serious injuries is driven by attitudes of**
 - Injured Parties
 - Legal Profession
 - Judiciary
 - Government
- **The interplay among these groups will determine**
 - Propensity for claims to be made
 - Level of claims inflation experienced

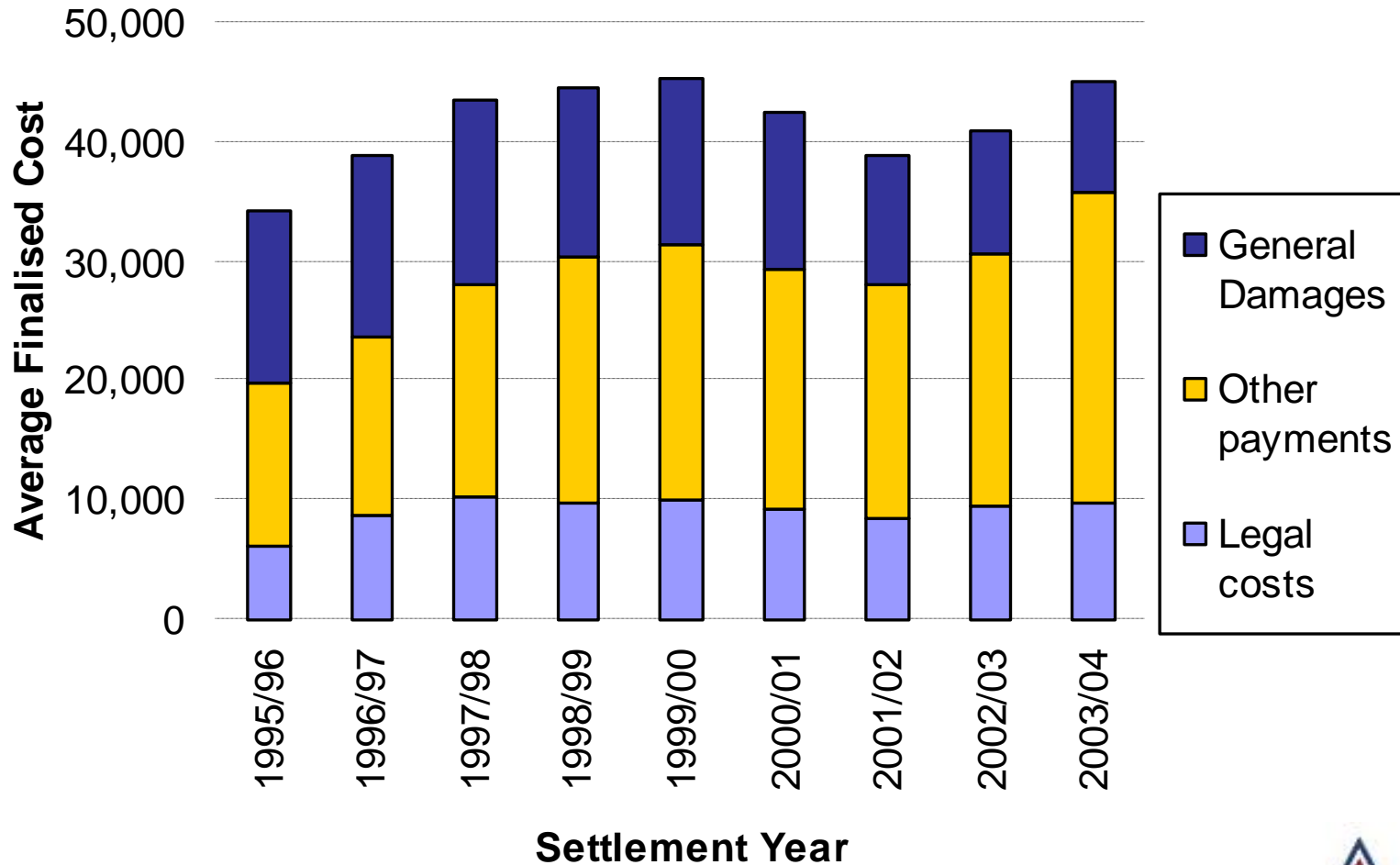
NSW Scheme – major reforms

- 1989** Scheme commenced
- 1993** Minor change in wording for access to general damages
- 1995** Increase in threshold for access to general damages
- 1998** Minor changes introduced claims handling guidelines
- 1999** Major scheme revision
WPI threshold for general damages
Legal cost restrictions
Further rules & guidelines on claims handling

Claim frequency – NSW

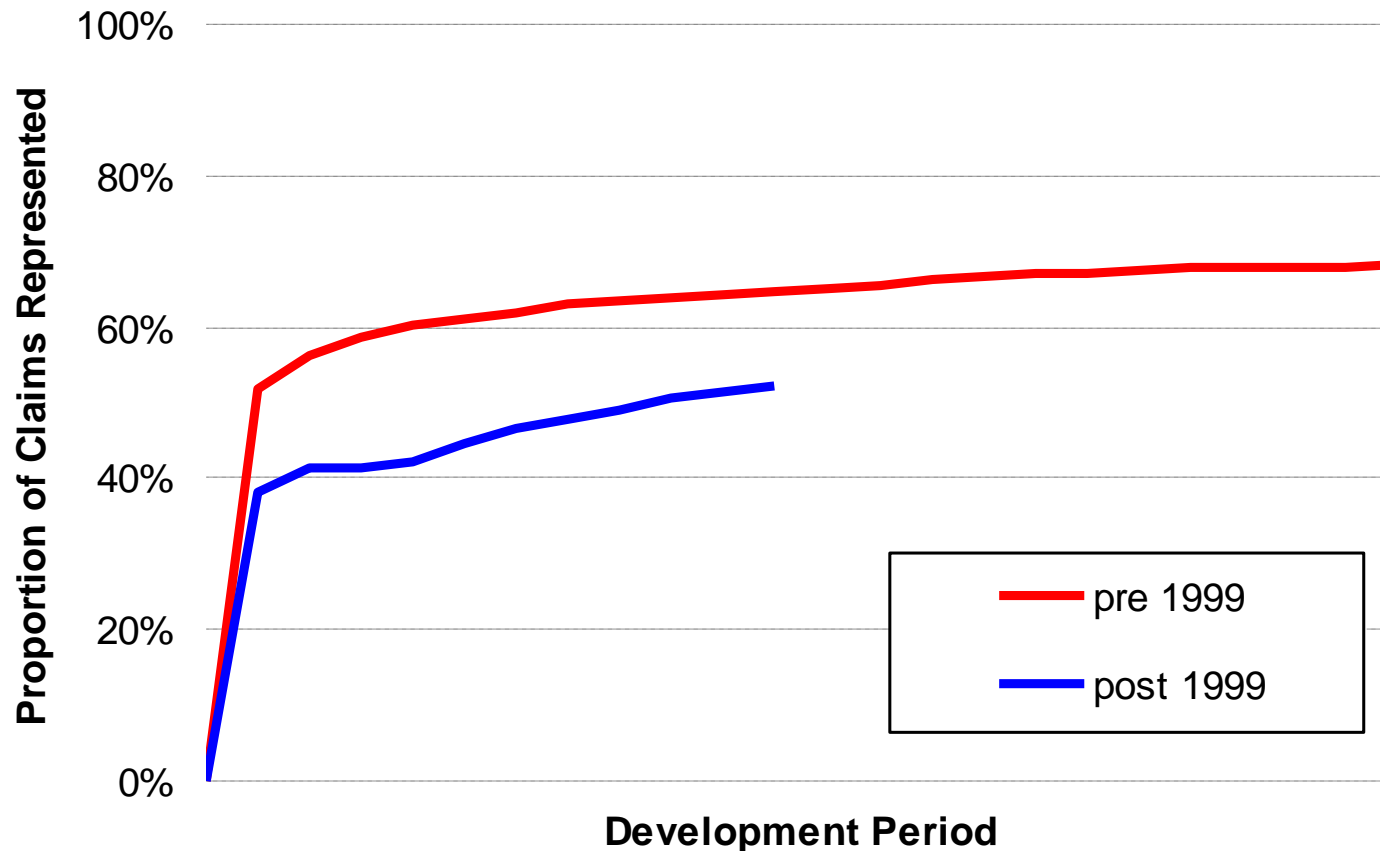


Average settlement sizes – NSW



Legal representation - NSW

- Three year limitation on action



The Actuarial Contribution

- Reserving
- Pricing
- Capital Allocation and Target Profit Margins
- Monitoring and portfolio management

Actuarial role in reserving

- **Central estimate of liability based on assessment of:**
 - ultimate claim numbers
 - average claim size
 - payment pattern for each accident period
 - future claim inflation (wage and superimposed)
 - future investment return
- **Estimation of risk margin needed to achieve 75% probability of sufficiency**

Reserving: Valuation techniques

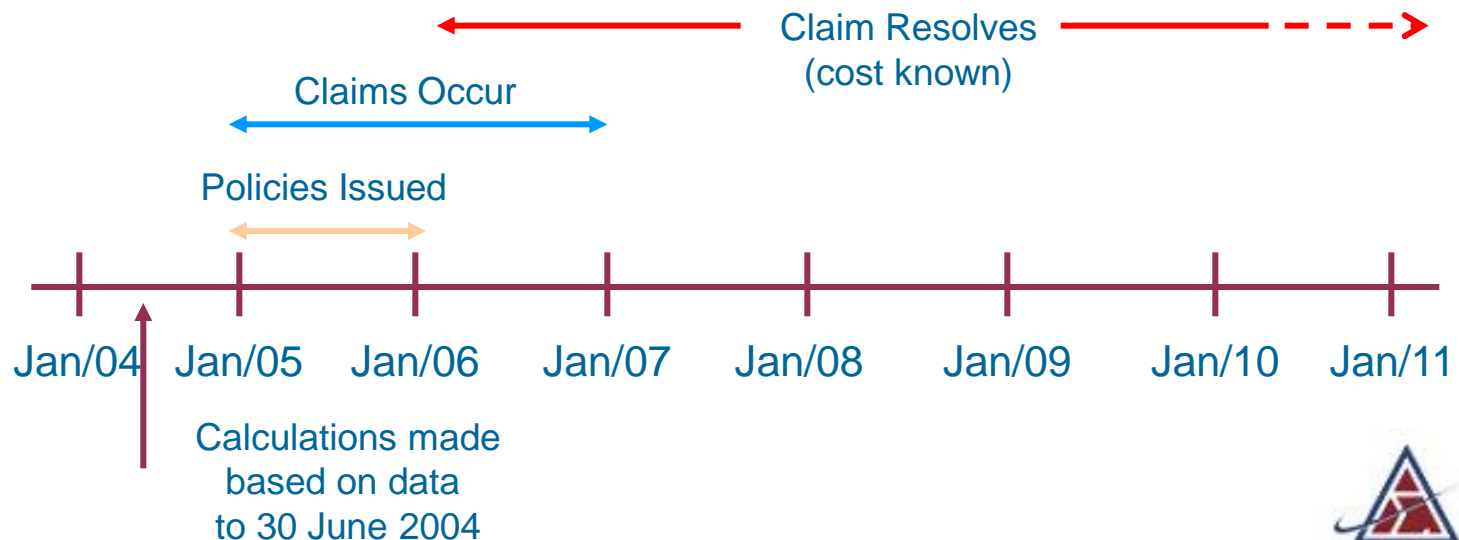
- **Traditional actuarial techniques are used:**
 - chain ladder and variations
 - projected case estimate development models
 - payments per claim in real or operational time
- **Valuation often allows for:**
 - separate assessment of large claims
 - segmentation by injury severity
 - different benefit types
- **Increasing use of more sophisticated statistical modeling techniques**

Actuarial Role in Pricing

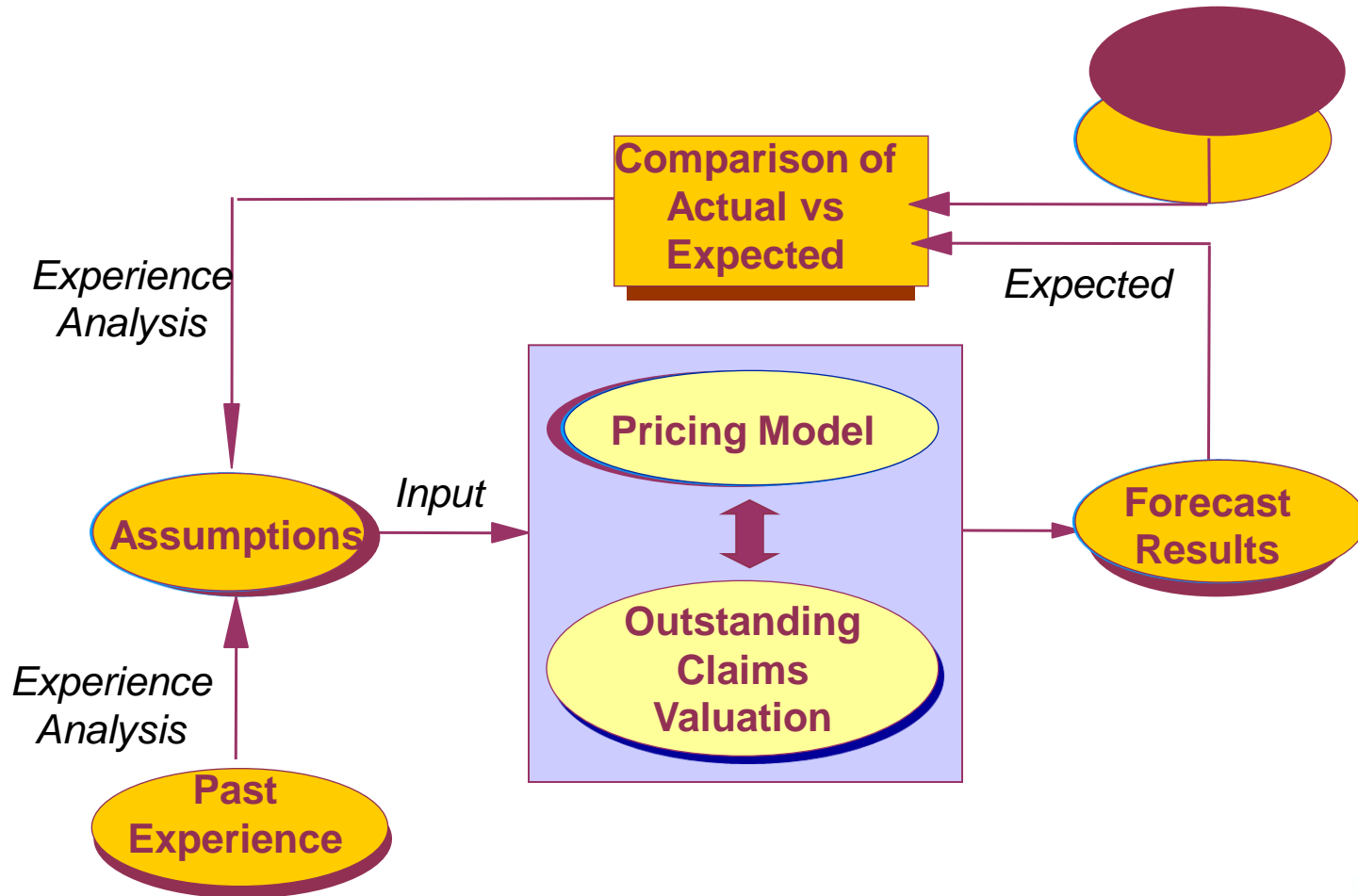
- **NSW**
 - Actuarial sign-off against fully funded test
 - Insurer's experience against industry-wide experience across statutory rating factors
- **Queensland**
 - Assessing and advising on insurer's own experience against floor/ceiling premiums set by Commission

Mechanics of premium setting

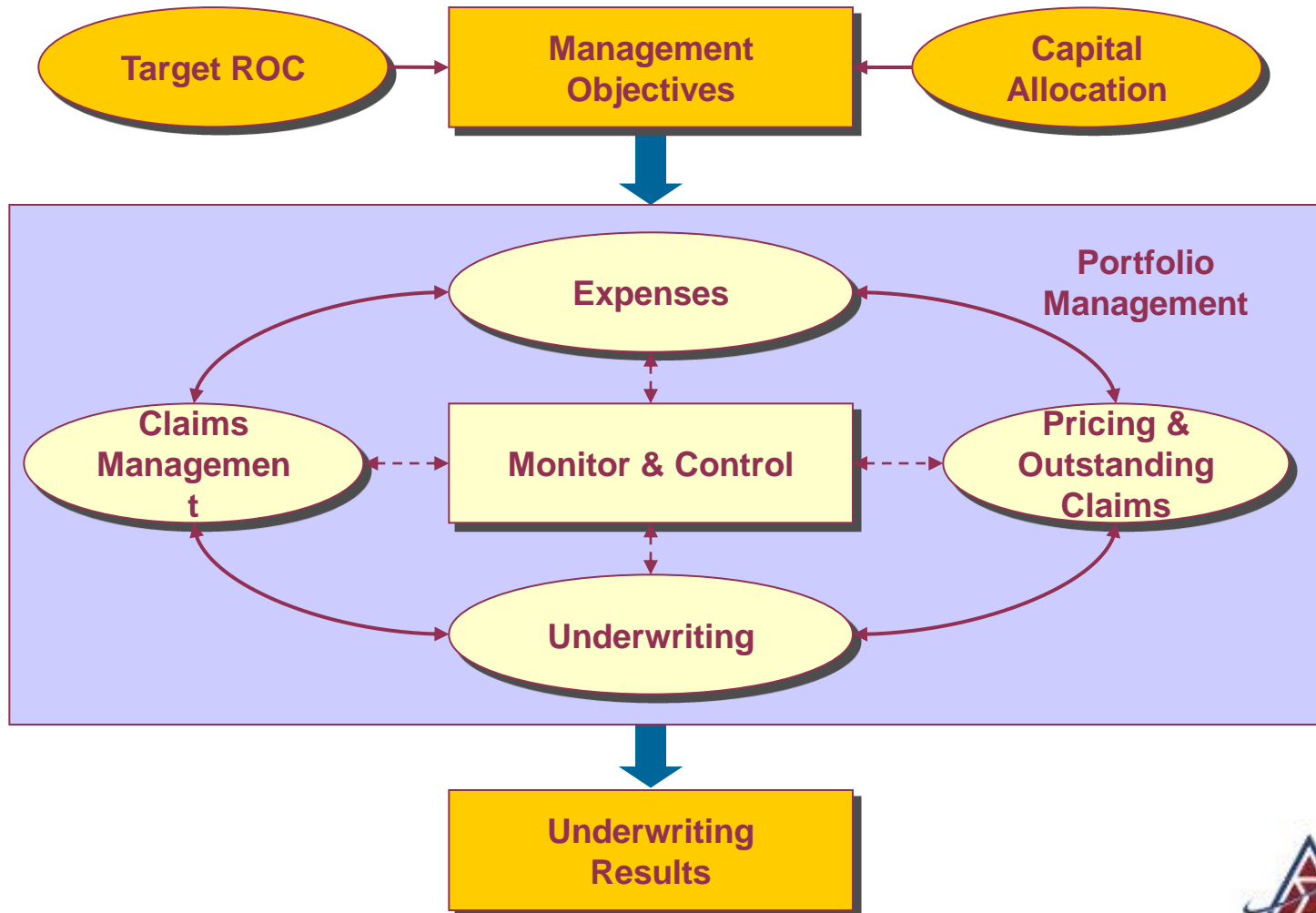
- Premium setting requires estimates of claims a long way into the future
- Fully funded premiums require estimates of –
 - claim numbers occurring 2 years ahead
 - claim settlements, on average, 3 to 7 years ahead
- For example for premiums to apply from 1 Jan 2005 to 31 Dec 2005



Actuarial control cycle



The Wider Actuarial Role



Challenges for Actuaries and Management

- **Making high quality data capture a priority**
- **Not over-reacting to short term aberrations in experience**
- **Making sound judgements about the impact of scheme changes in advance of mature experience**
- **Balancing technical considerations with commercial needs**