

$\begin{array}{c} 2014 \\ \textbf{ACTUARIAL CONFERENCE} \end{array}$

12-15 October 2014 Taipei International Convention Center in Taipei Taiwan

How success looks like in Personal lines in Asia

October 2014 Yao Wang, Ph.D, FCAS Roberto Malattia, MA FIA FSAS Towers Watson









Trends in the Personal Lines markets within Asia

Effective pricing and portfolio management in Asia





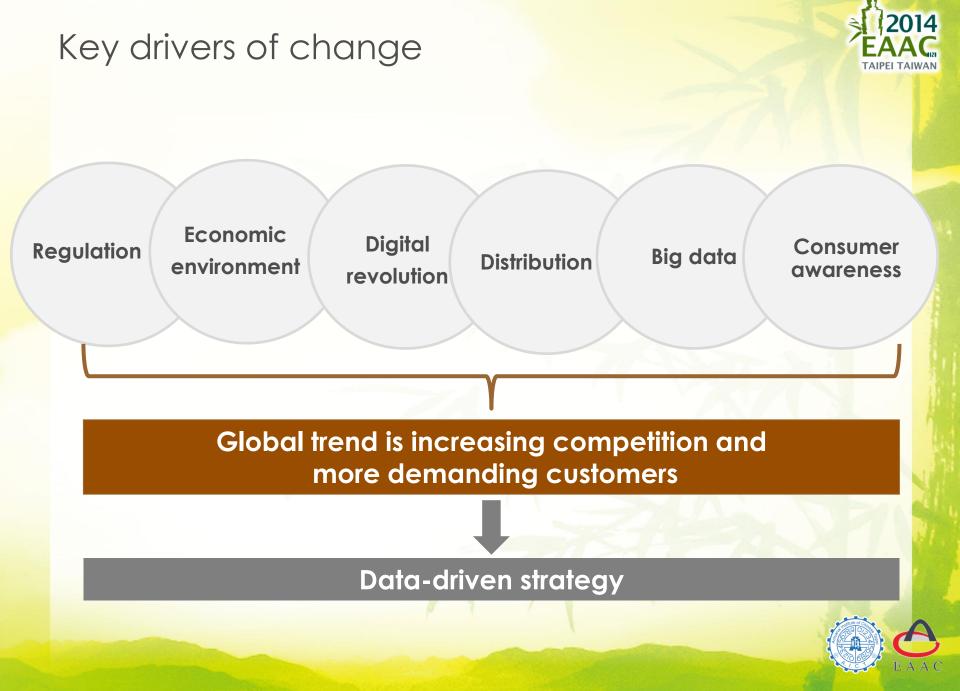
Chinese Case Study





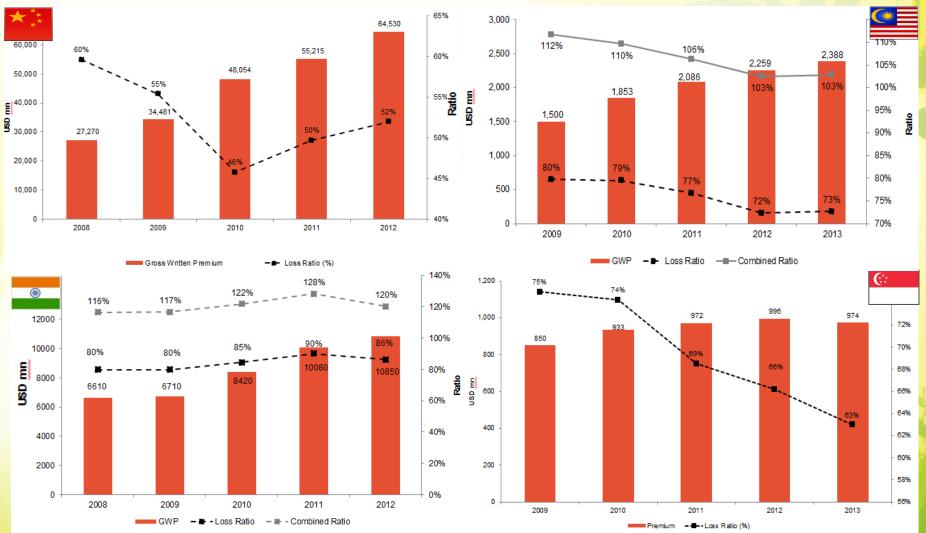
Trends in the Personal Lines markets within Asia







What is the impact on the market





Agenda



Trends in the Personal Lines markets within Asia

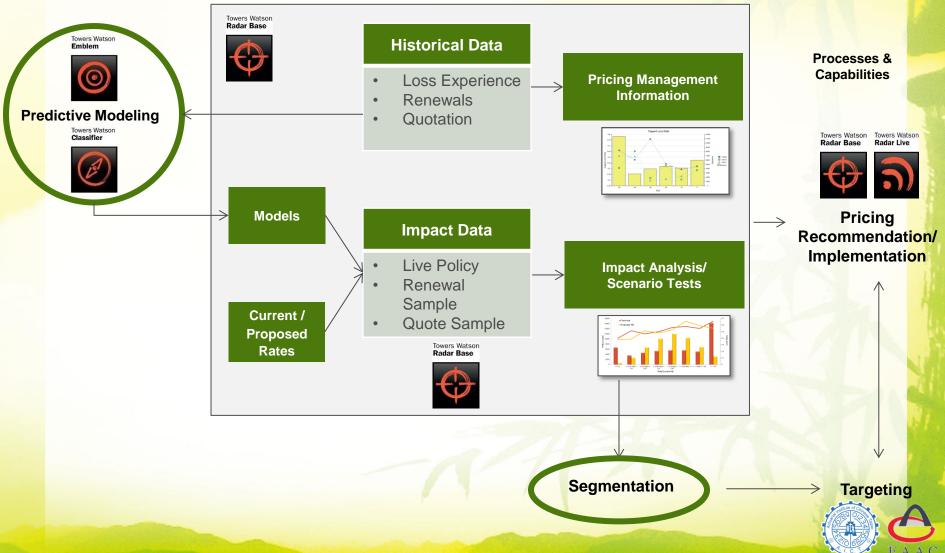
Effective pricing and portfolio management in Asia



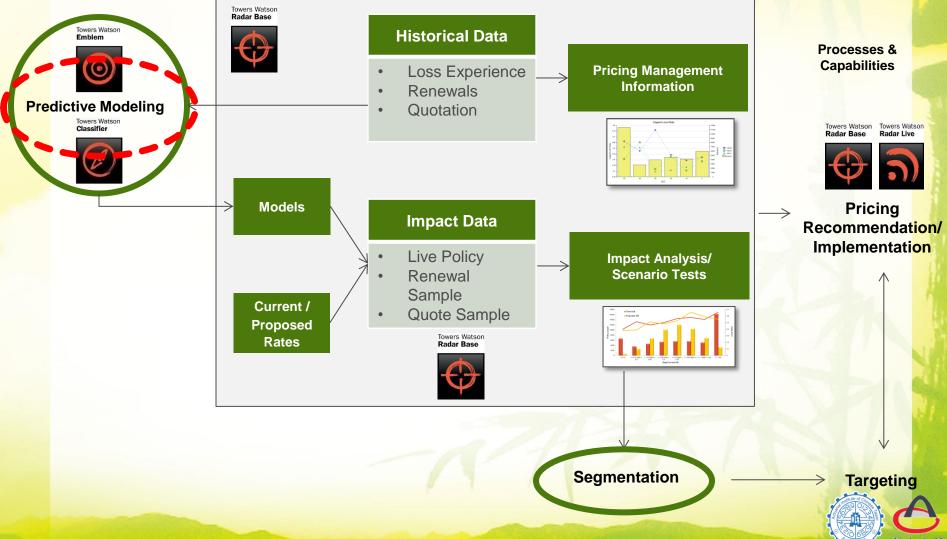


TAIPEI TAIWAN

A framework for effective pricing and portfolio management

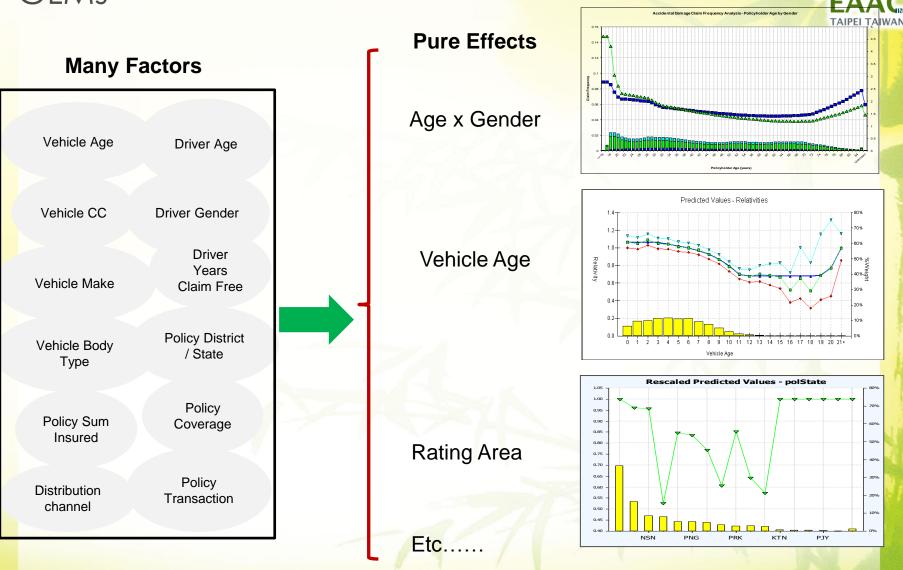


2014 A framework for effective pricing and portfolio TAIPEI TAIWAN



management

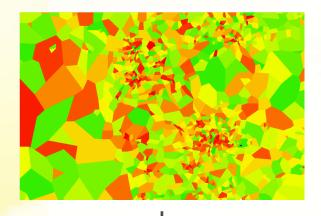
GLMs

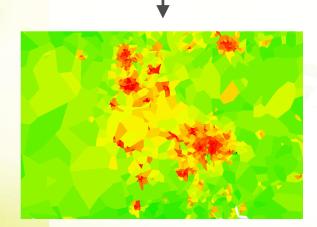


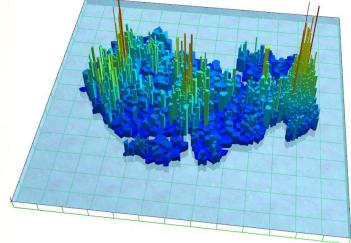
Simplifies a multiple dimensional problem to a series of one and two-way views ...

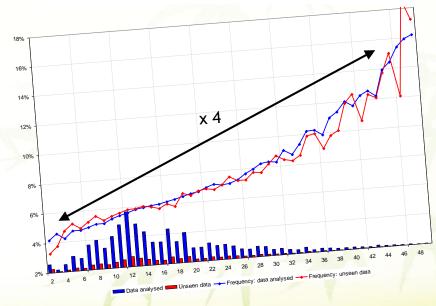
EAAC

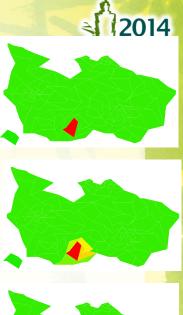
Risk based pricing - area

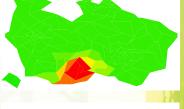


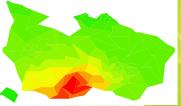






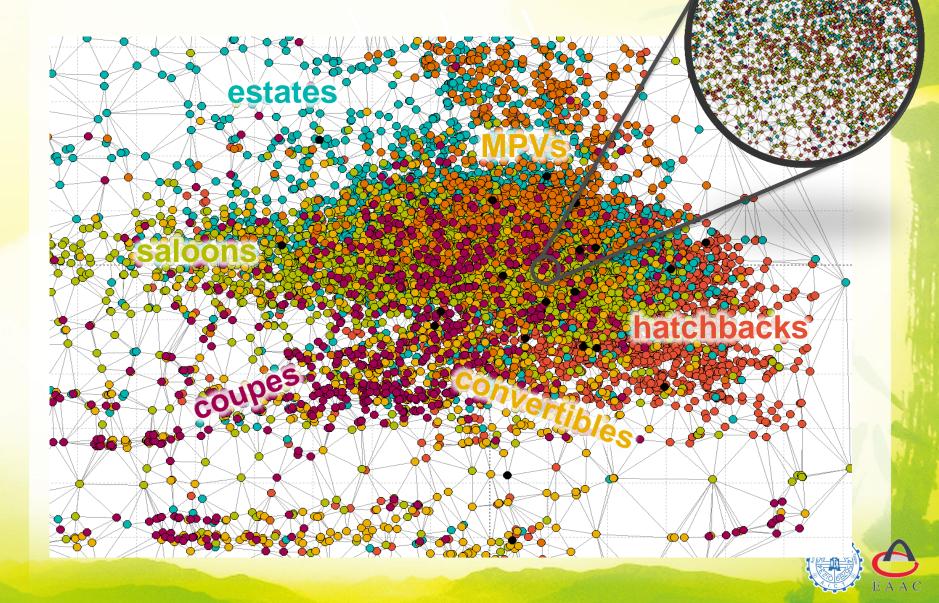








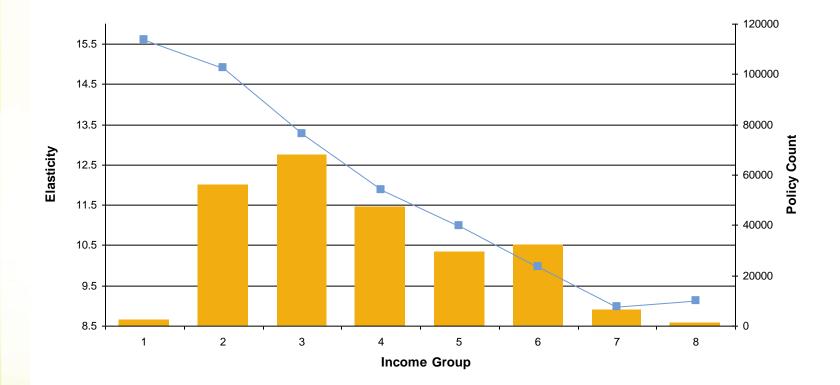
Risk based pricing – vehicle



Customer behaviour

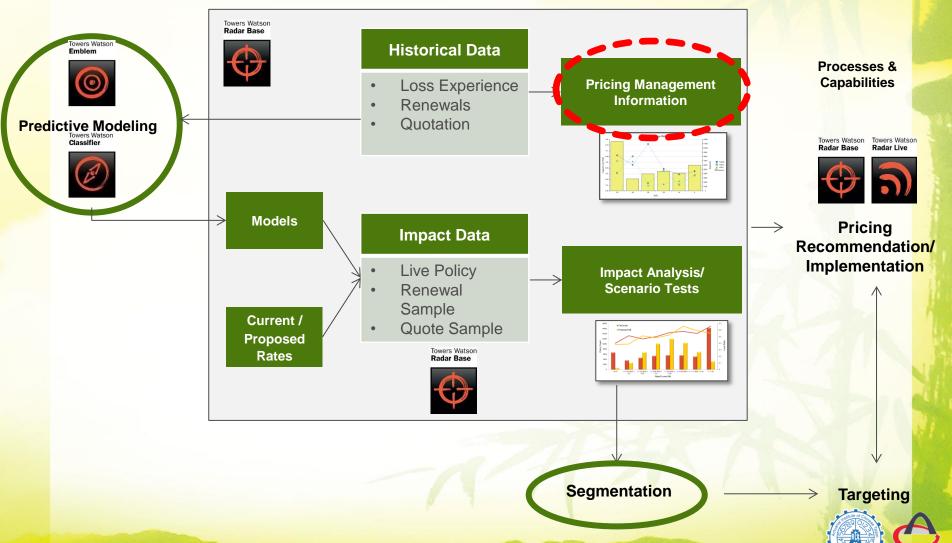


Elasticity Variation by Affluence





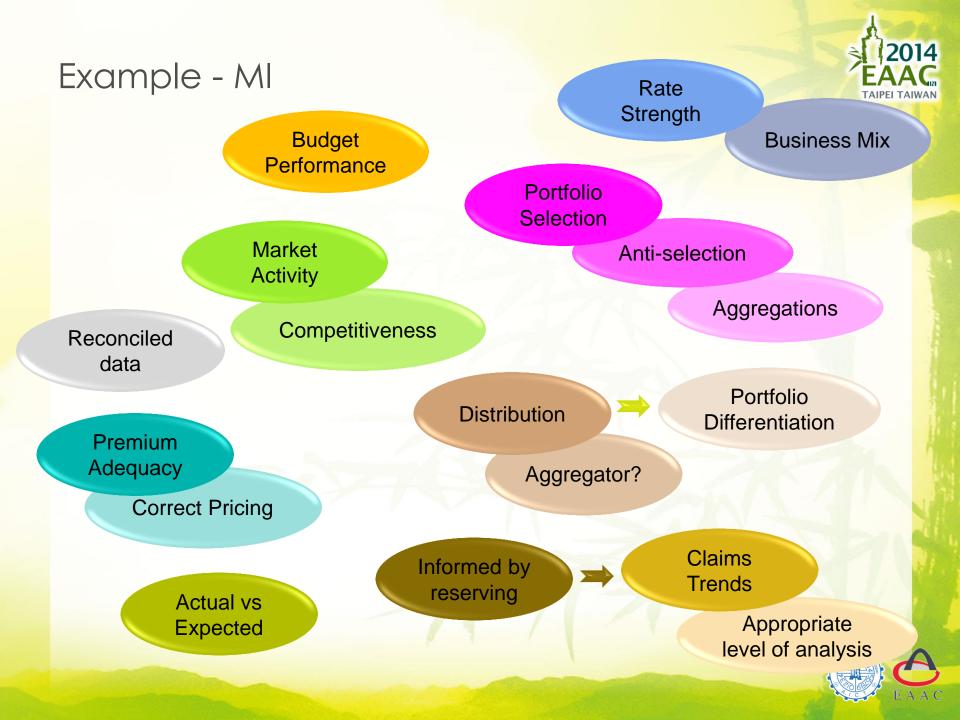
A framework for effective pricing and portfolio



2014 EAAC TAIPEI TAIWAN

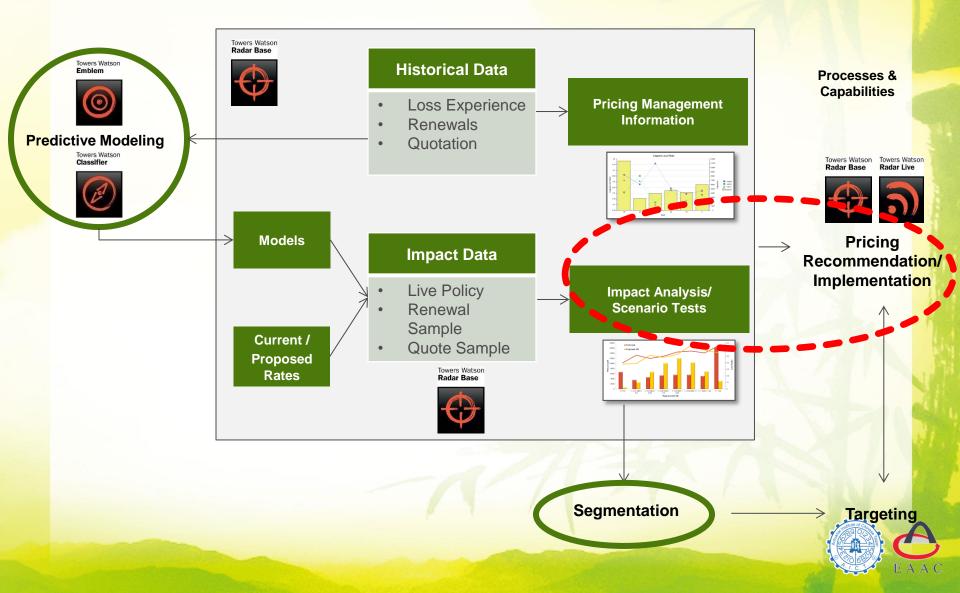
Monitoring and decision support





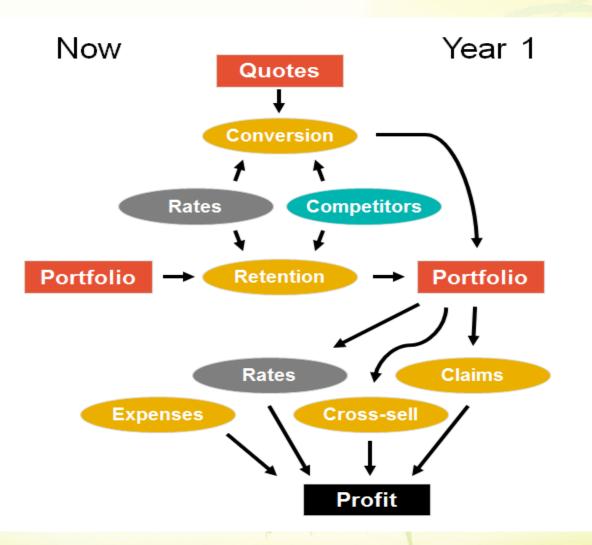


A framework for effective pricing and portfolio management





How are models applied in practice?

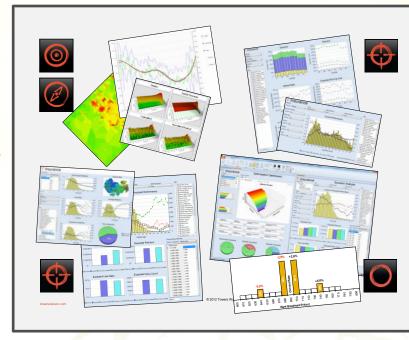




Price assessment - scenario testing



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Implementation and rate delivery

- Models
- Projections
- Metrics
- Selections

- Underwriting rules
- Strategy tests
- Price tests
- Optimisation



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Compare implementable rates to the technical 2014 premium



Technical Premiums

Predictable cross subsidies

Segmentation

Target those customers who are profitable

Underwrite to exclude certain segments

Marketing strategies

- Agent commissions
- Profit share arrangements
- Sales management targets
- Targeted advertising campaigns
- Direct marketing
- Bundling discounts

Underwriting strategies

- Avoid loss making segments / fleets / portfolios
- Exclude policies where expected loss cost is higher than threshold
- Create underwriting/"fraud" scores



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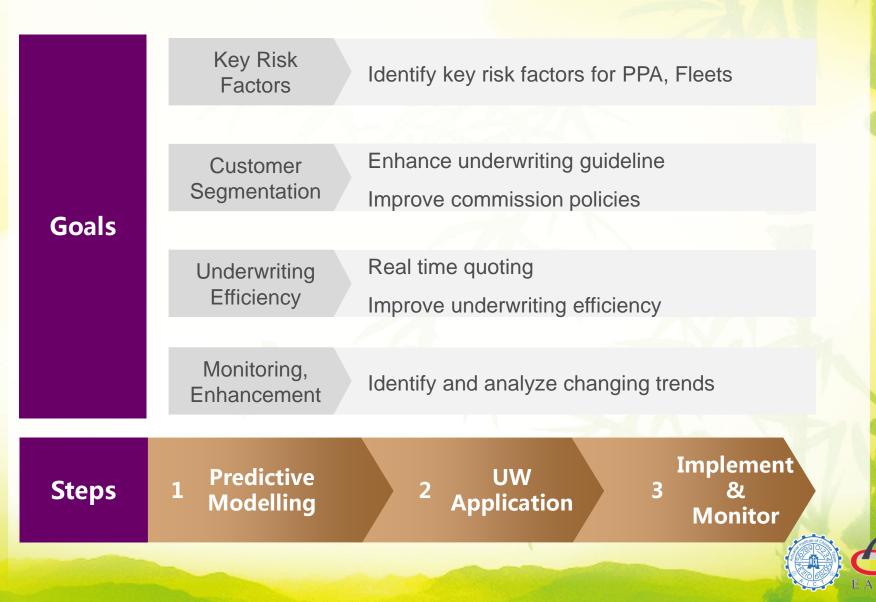


Typical pricing project steps undertaken by Chinese insurers

GLM



Implement





Enhance risk segmentation





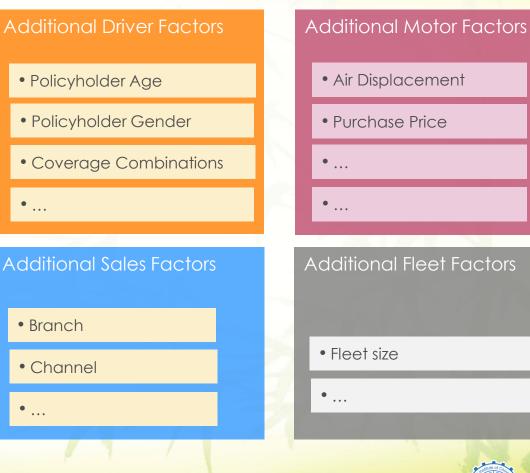
Current

Existing Pricing Factors

- Sum insured
- No Claims Discount
- Renewals
- Vehicle Age

• Number of seats

Enhanced





1GLM2UW3 ImplementNumerous predictive Models are built to
understand risk factors

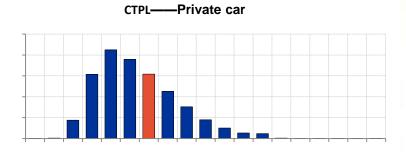


Vehicle type	Coverages	Model
Private Passenger Auto	CTPL	Frequency
Fleet	Own Damage	Severity
	TPL	Risk Cost
	Theft	
	- VL	
	Glass	
	Scratch	



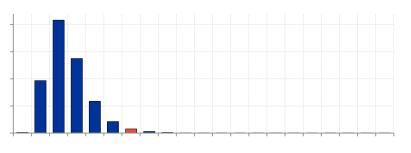


Price restrictions mean significant cross-subsidies remain

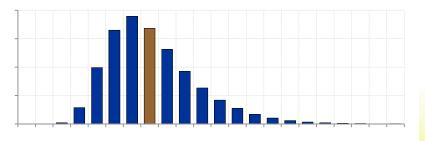


GLM

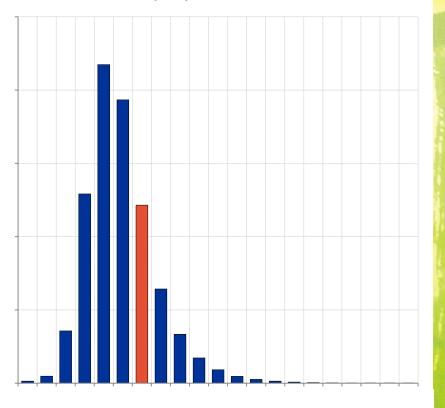
TPL ——Private car



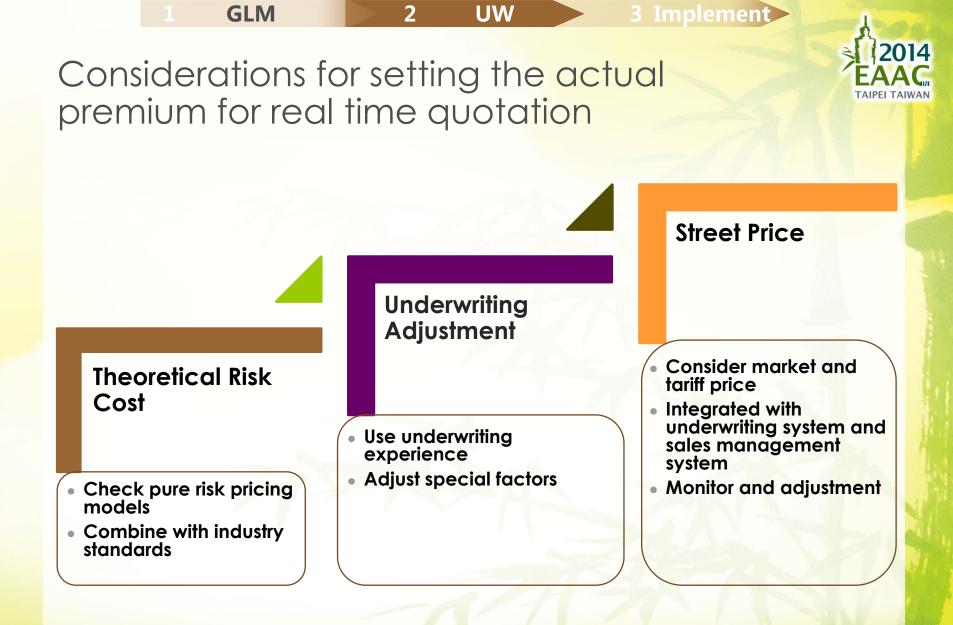
OD——Private car



Whole policy——Private car









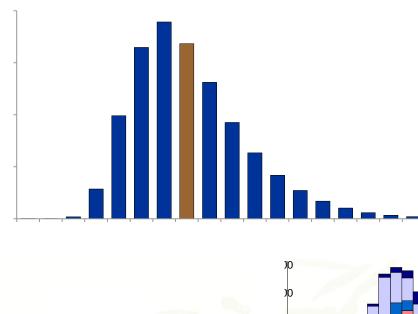
Effective customer segmentation is key for underwriting rules



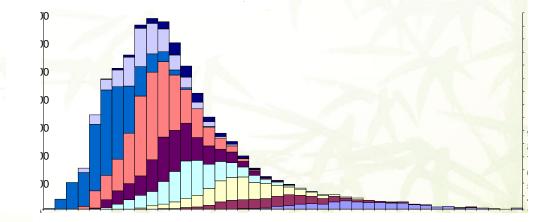
Implement

OD Distribution of Policy Quality

UW



GLM

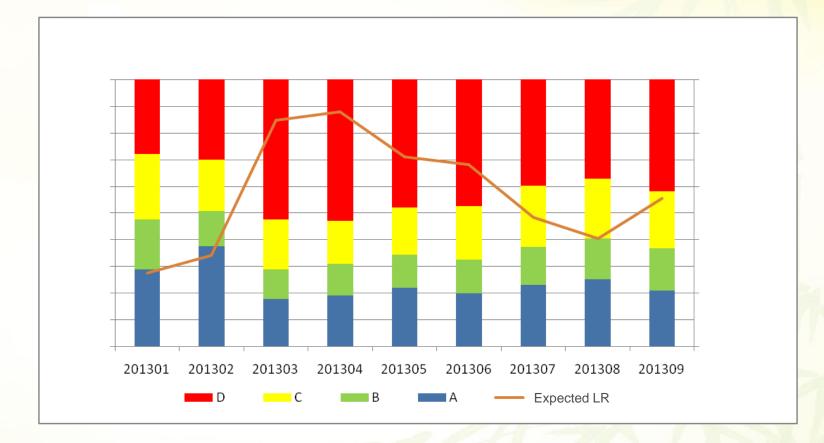






Example on monitoring and diagnostics

GLM



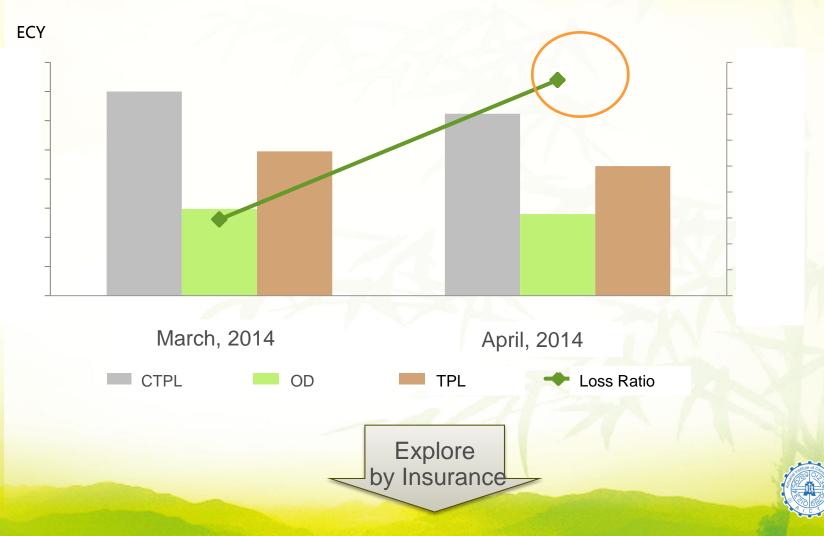




Use appropriate tool and methodology for monitoring and analysis

GLM

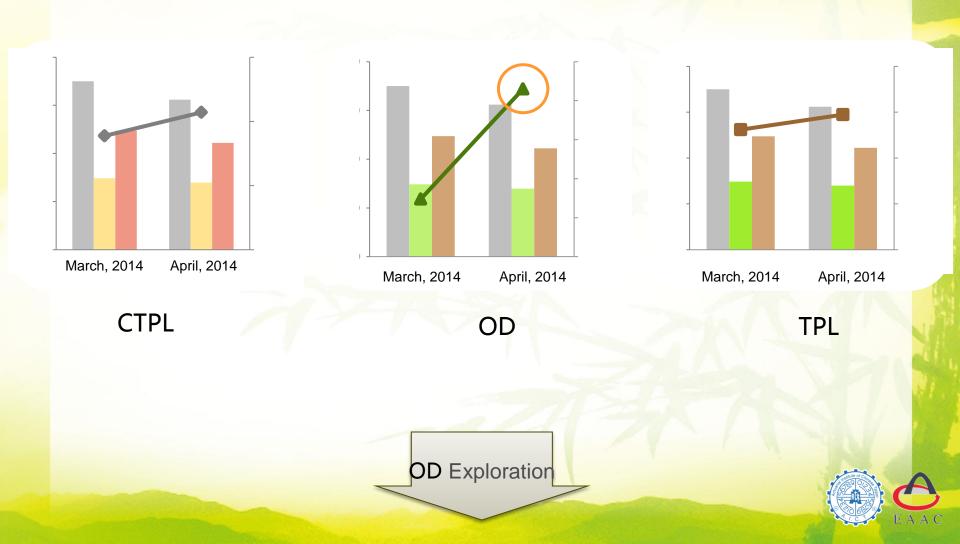
 At the end of April 2014, managers observed that the predicted loss ratio of underwriting business was higher in that month.

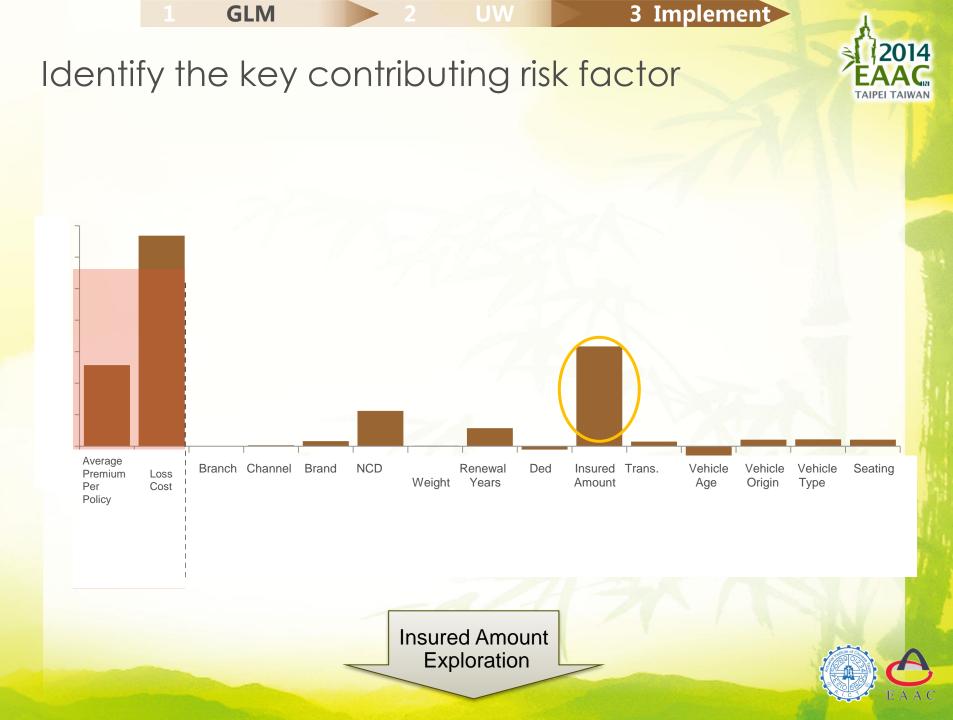




OD is the main reason for the rise of loss ratio

GLM





Main challenges in effective pricing and portfolio management







Best practice pricing requires cross-functional engagement





Thank you!

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