The Future Role of Australian General Insurance Actuaries in Asia

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Agenda

Currently in Asia

Key Trends – an actuarial perspective

Actuarial Education & Bodies in Asia

Australia – an Exporter of Actuaries ?



Introduction

- Bring the perspective of an employer of GI actuaries with the need to operate in multiple Asian markets
- Currently have on the team FIAA, FIA, FCAS & FIAJ
- From our perspective in Hong Kong there has been a substantial increase in actuarial students trained in Australia wanting to work in GI in Asia but particularly Hong Kong & China
- This made us curious about the current state of actuarial skills in Asia in the GI sector



Currently in Asia

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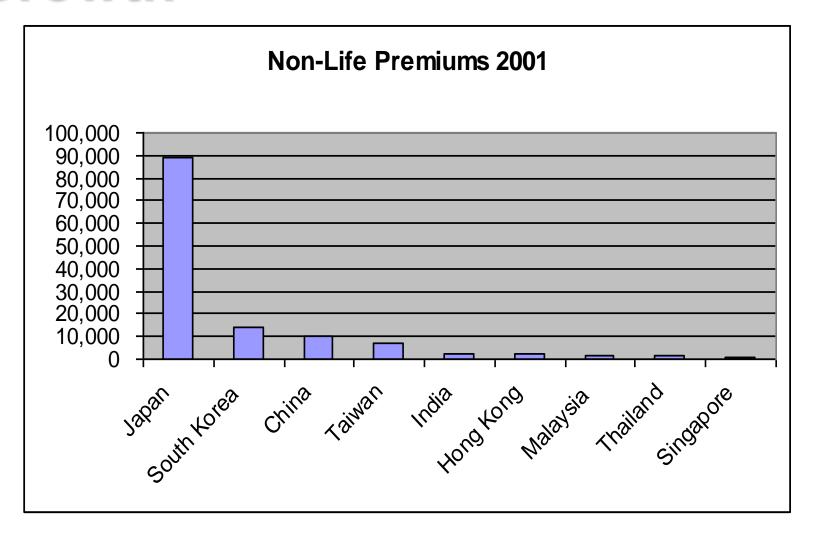


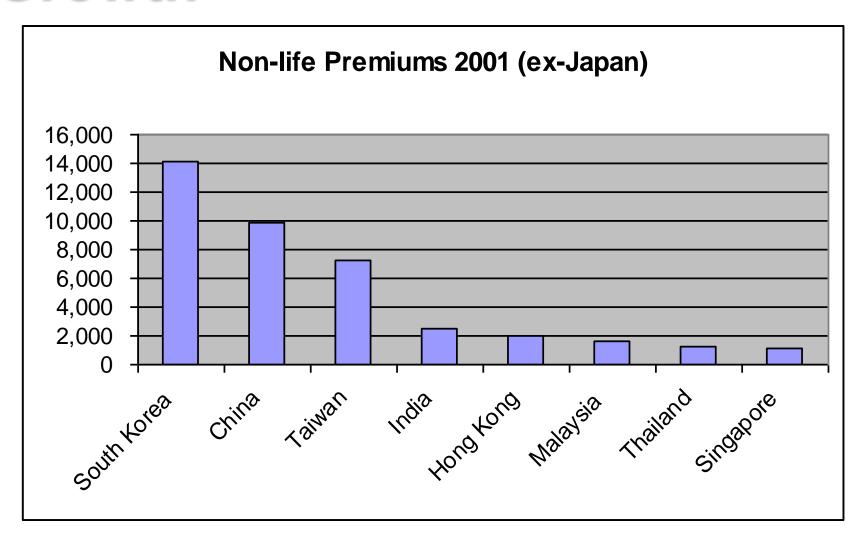
Current Events Asia GI Sector

- Access by foreigners
- Solvency Standards
- Deregulation of pricing
- Actuarial Involvement

- Newsflash: "China achieves 50% growth in Premium Income ..."
- Global insurers looking to China for future growth
- ... but is it profitable ?
- What about the rest of Asia?
 - India
 - Korea / Japan







Non-Life: Growth	(=(current yr - past yr) / pε		
	99-00	00-01	
Japan	-0.71%	-13.24%	
South Korea	14.32%	0.23%	
China	40.60%	12.17%	
Taiwan	18.16%	2.80%	
India	2.34%	4.28%	
Hong Kong	7.07%	8.46%	
Malaysia	8.23%	3.68%	
Thailand	0.33%	2.23%	
Singapore	8.47%	6.54%	
Total (weighted by premium)	3.73%	-8.44%	
Total (simple avg)	10.98%	3.02%	



Access by Foreign Insurers

- All Asian markets are opening to foreign insurers to a lesser or greater extent
- China most recognisably due to entry to WTO and many global insurers have seen it as an opportunity to big to ignore
- Limits to foreign ownership that will gradually relax
- But foreign interest in all the other markets:
- Japan: several foreigners, AIG, Zurich, Axa, R&SA have entered in last 10 years.
- Sector not in any real trouble unlike the Life sector, foreigners finding it tough to carve out market share



Access by Foreign Insurers

- Korea: Smaller GI companies have been in substantial trouble. About 50% of the balance sheet devoted to savings products in most GI companies.
- A few foreign insurers still there (Allianz) but some have already exited (R&SA)
- Still significant restructuring of the industry under way, especially at the small company end

Access by Foreign Insurers

- Taiwan: Access for foreigners has existed for some time.
- There is still restructuring to occur among the smaller domestically owned insurers as Taiwan regulator imposed higher solvency requirements in 2001
- India: Again a gradual opening on the basis of local joint venture partners, similar to China
- This covers the major markets of interest in Asia. Other markets such as Malaysia, Thailand, Philippines, Indonesia, Vietnam are quite small or nascent.
- Hong Kong & Singapore are somewhat unique very similar to Western markets, quite open, overcompetitive, & home to most of the regional offices of foreign GI companies in Asia (some in Sydney).



Key Trends in Asia – an Actuarial Perspective

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KEY TRENDS – an actuarial perspective

- Actuarial Certification of Reserves
- Appointed Actuary role in Taiwan
- Price deregulation: China, Japan, Korea, India
- Solvency Standards, Capital Management
 & Risk Based Capital

Certification of Reserves

- Both Hong Kong & Singapore have introduced actuarial certification of reserves for General Insurance liabilities
- MAS guidelines in Singapore are somewhat more detailed than GN9 in Hong Kong
- Both allow choice of methodology by the actuary, Singapore requires a margin to raise probability of adequacy to 75%, Hong Kong leaves the requirement of a margin above the best estimate to the judgement of the Actuary.
- FIAA plus suitable experience is recognised as are all major actuarial bodies. Actuary can be employed by company or be a consultant.
- Certification not required by regulators in other Asian countries



Appointed Actuary Role- Taiwan

- Appointed Actuary role for General Insurance companies in being introduced in Taiwan from end of 2003
- Scope of role is still not entirely clear despite legislation being passed
 - MOF currently requires all product submissions for benefit or price changes to be certified by an Actuary
 - Appears to require certification of reserves for year ending 2003,
 - Do not know about ongoing solvency position



Appointed Actuary Role- Taiwan

- Again Actuary can either be employed or be a consultant
- Acceptance by the MOF for this role is on an individual basis
- One of the issues MOF faces is the lack of Gl actuaries to do the work and there are few foreign actuaries working in Taiwan.

Deregulation of Pricing

- Wednesday, April 30, 2003
- Nonlife Insurers Launching Risk-Segmented Products
- TOKYO (Nikkei)--Top Japanese nonlife insurance companies are introducing auto insurance products that differentiate premiums according to risk factors such as age and gender.
- Such risk-segmented insurance products are widespread in Europe and the U.S., but up to now in Japan they have mainly been offered by market newcomers like Sony Assurance Inc.
- Tokio Marine & Fire Insurance Co. and Nichido Fire & Marine Insurance Co., which are slated to merge in fall 2004, have jointly developed a new product that they will begin marketing in August. The product will be geared toward individuals aged 35 or older, and premiums will be lowered by an average of 2% for main vehicle types. They will also discount the premiums on new vehicles by 5%.
- Ace Insurance will begin selling a new insurance product that classifies premiums according to six items including age, gender, type of vehicle use, and miles driven. The age category alone is divided into 10 tiers.
- Sompo Japan Insurance Inc. (8755) and Mitsui Sumitomo Insurance Co. (8752) are also introducing products that differentiate premiums according to factors like age and how a vehicle is used.

(The Nikkei Financial Daily Wednesday edition)



Deregulation of Pricing

- A mixed picture
- Hong Kong & Singapore: open competition for many years
- North Asia Japan & Korea: Convoy system, leaders set prices & product design, rest of industry followed
- China completely regulated prices until quite recently. Experimented with price competition in Shenzhen, now going nation wide
- India: industry guidance through the Tariff Advisory Committee.



Deregulation of Pricing

- Tariffs being removed in most of Asia
- Actuaries involved to a limited extent
 - Pricing sign-off in Taiwan
 - Industry 'reform' for Employer's
 Compensation in Hong Kong
 - Some companies with the resources for more 'sophisticated' approach to pricing but as the Japanese example shows segmentation is still 'new' and certainly not taken to extremes

Solvency Standards

- Numerous countries are doing something
- Singapore: introducing a RBC standard
- Malaysia, Thailand & Taiwan have significantly raised minimum capital requirements in recent years,
- Korea: regulator pressure on smaller companies to get larger & stronger, including forced bankruptcy & reconstruction
- Japan: FSA has taken 'informal' action to ensure solvency of industry via inspection activity, especially following Fortress Re.



Capital Management

- Korea, Singapore, Taiwan & to a lesser extent Japan showing strong interest in Risk Based Capital
- Dynamic Financial Analysis is a hot topic in several places
- Strong desire for education on the tools and their implementation
- Australia's expertise in this area is widely understood



Actuarial Involvement

- Reserving
 - Hong Kong, Singapore, Taiwan, Korea, Japan
- Levy funding requirements for guarantee funds, industry bodies, terrorism pools
- Pricing
 - Relatively simple so far
 - Statistical monitoring services, mainly HK
 - Some GLM's for Industry Tariffs
- DFA models implemented by some larger companies
- Health something of a cross-over area between Life & Gl actuaries



Actuarial Education & Bodies in Asia

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Actuarial Bodies in Asia

- Asian Actuarial Bodies
 - HK, Singapore, Malaysia, Japan, Korea, Taiwan, China, India
- Korean Actuarial Society

Category	Life & Friendly Society	GI	Govern- ment	Banks	Other
Fellows	130	77	31	4	85
Associates	144	23			10

- Estimated about 15% of local actuaries don't register with KAS
- 9 foreign Fellows registered with KAS



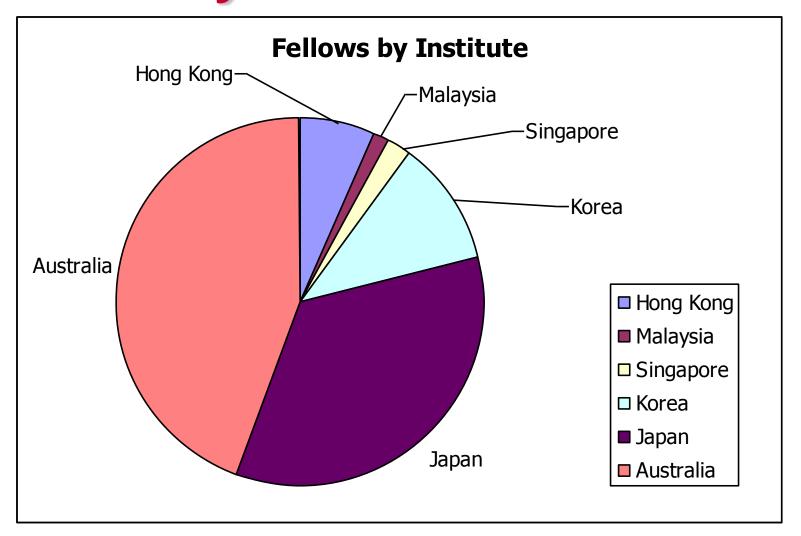
Actuarial Bodies in Asia: Japan

Institute of Actuaries Japan March 2003

Category	Fellow	Associate	Student	Total
Life	431	341	633	1,405
Non-life	151	118	233	502
Trust Bank (Pensions)	164	93	119	376
Bank	10	16	23	49
Public	17	13	29	59
Taiwan	13	50	19	82
China	0	0	6	6
Individual	149	127	299	575
Others	85	61	216	362
Total	1,020	819	1,577	3,416



Fellows by Institute



Location of FIAA's

			FIAA	
		2001	2003	% incr.
	Location			
	Australia	79%	77%	-2%
	UK	7%	6%	-7%
	US	2%	2%	-3%
	Asia	5.5%	8.0%	44%
<u>-</u>	other	7%	6%	-2%
	Total #	1228	1315	

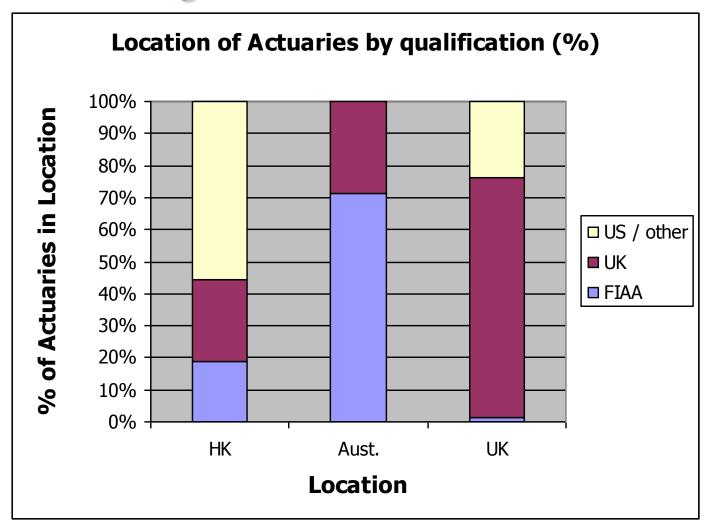


Location of FIA's (UK)

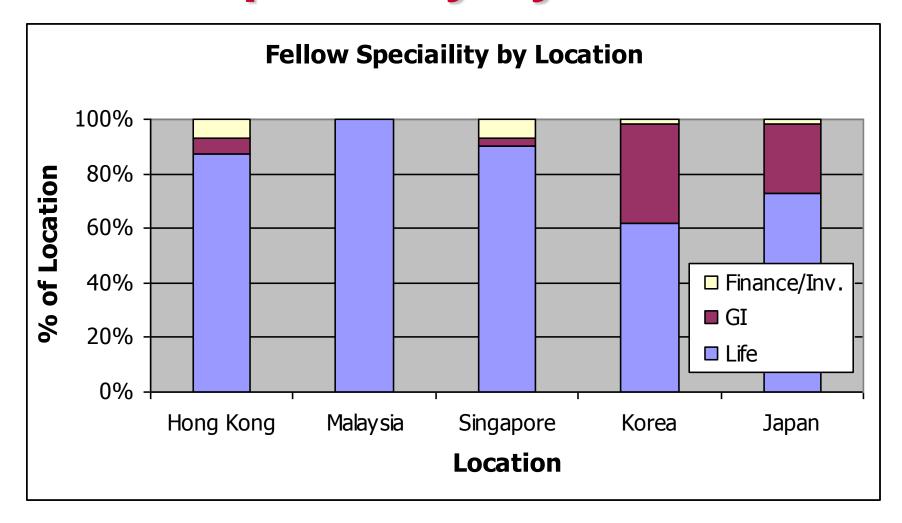
		FIA		
		2001	2003	% incr.
	Location			
	Australia	6%	6%	1%
	UK	72%	75%	4%
	US	2%	3%	18%
	Asia	3%	3%	4%
<u></u>	other	17%	13%	-21%
	Total #	6471	7112	



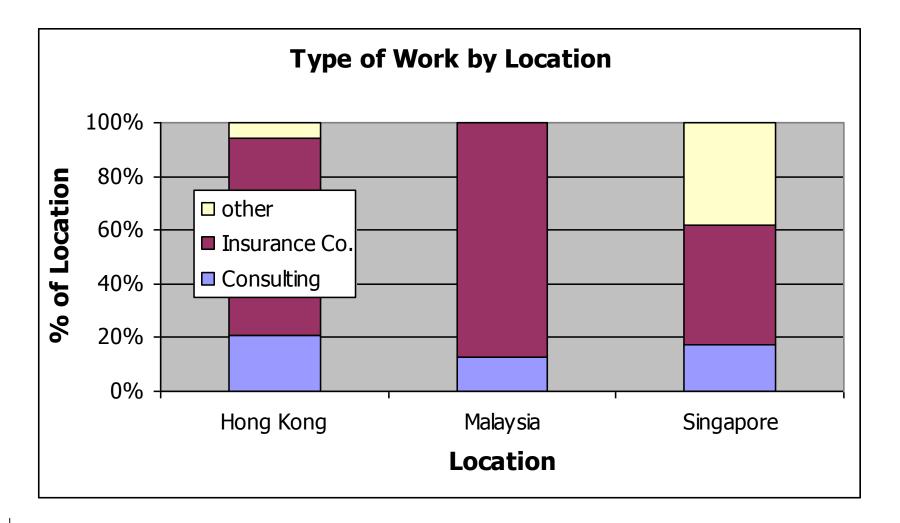
Fellows by Location



Fellow Speciality by Location



Type of Work by Location



Why Australian Actuaries?

- Why Not ?
- Quality & reputation
 - Australia has a strong reputation for quality education, even as far North as Korea and China
 - US has greater influence in Japan & Taiwan
 - UK has greater influence in HK, Singapore & India
- Culture & language
 - Sizeable Asian participation in our university programs
 - Institute should not lose contact when they return to Asia



Why Australian Actuaries?

- Australian university programs
- Overseas students
- Students intentions r.e. international career
- IAA now has members in 38 countries compared to 32 in 2001. 8.0% of FIAAs are now based in Asia (5.5% in 2001). Further, 11.4% of students plus associates are based in Asia (8.4% in 2001).

Australia – an Exporter of Actuaries ?

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Trends in Execs moving to Asia

- Demand & supply
- Country specific
- Practice Areas
- Experience

Trends: Demand & Supply

- Developing Markets
- Middle class
- Foreign ownership
- Corporate governance, legislation
- Language skills



Trends: Countries

- India
- Hong Kong / Singapore
- Japan
- China
- Vietnam
- Thailand, Indonesia, Taiwan

Trends: Expatriate Packages

- Build up model / Tax equalisation
- International salary (with extras ?)
- Hybrids

Trends: Expatriate Packages

- Build up model
 - Taxed at home country rates
 - Build up to local gross
 - COL, LAFA, FSA, Hardship
 - Utilities, home visits, schooling

Trends: Expatriate Packages

- Factors relating to which model chosen?
 - Level of local salaries
 - Home country of expat ?
 - Hardship component / security
 - Maturity of market
 - Family situation
 - Company policy
 - Regionalisation
 - Level of experience / seniority
 - Value of qualification
 - Demand & Supply



Acknowlegements

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However, the opinions expressed remain ours and we look forward to the continued relevance of the actuarial profession to the sound operation of the General Insurance industry in Asia.