Casualty Loss Reserve Seminar

Insurance on the Internet

September 11, 2001 Ted Wagner, FCAS, MAAA (312) 701-6052 edward.h.wagner@us.pwcglobal.com



This document contains information that is confidential to PricewaterhouseCoopers, which shall not be disclosed outside the recipient's company or employees and may not be duplicated, stored electronically, used or disclosed in whole or in part by the recipient for any purpose other than to evaluate this material. The material and related discussions shall not be disclosed to any unauthorized user including, but not limited to any consultant, advisor, auditor, contractor, temporary employee, firm, academic or professional organization. Any other use or disclosure in whole or in part of this information without the expressed written permission of PricewaterhouseCoopers is prohibited.

PRICEWATERHOUSECOPERS 🔞



P&C Market Vision

Insurance on the Internet

Casualty Loss Reserve Seminar

The Economist Intelligence Unit, in cooperation with PwC, surveyed 150 senior P&C executives in late 2000:

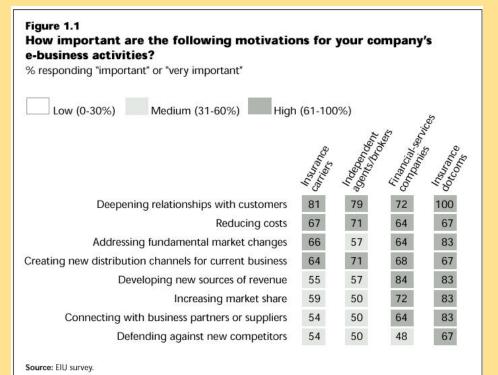
Market Vision

The Future

Actuarial Implications In three years, respondents expect e-business to generate 19% in annual savings on average, compared with an estimated 7% today.

- Deepening customer relationships and cutting costs are top e-business priorities.
 Placing back-office processes online will be a key source of cost savings.
- Respondents say that online customer relationship management and integrated, multiple distribution channels are top priorities for enhancing customer relationships.

Source: The Economist Intelligence Unit Ltd. and PricewaterhouseCoopers 2001

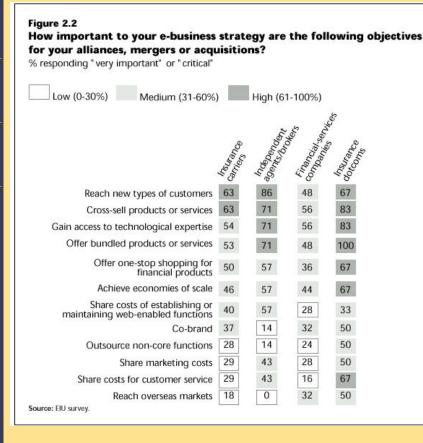


Alliances will become increasingly important in the industry.

Market Vision

The Future

Actuarial Implications



- Insurance providers will turn to partnerships with organizations such as service providers, other insurers, and non-financial institutions in order to leverage core competencies, achieve economies of scale, and extend product and service capabilities to existing as well as new customers.
- Extended and virtual organization models will become increasingly prevalent.
- Alliance-management skills will be critical to success.

Source: The Economist Intelligence Unit Ltd. and PricewaterhouseCoopers 2001



Carriers will broaden distribution by developing multiple, customer-centric access points.

Market Vision

Figure 4.1

To what extent is your company using the following channels to distribute products?

% responding "to a great extent" or "to a very great extent"

The Future

Actuarial Implications

Now					In three years			
carriers nee	^{Independent} ³ 9ents brodent	Financial Sen.	thsurances vices	- Sec.	Insurance Carriers	agents bendent	Compani, Ser.	Insuran vices vices
38	29	36	17	Captive/in-house agents	29	29	36	17
57	50	36	33	Independent agents/brokers	57	50	32	33
11	0	20	33	Direct writing through my company's website	42	21	48	33
25	14	8	33	Direct writing through a call centre	46	21	36	17
5	7	20	33	Website of a financial- services partner	35	29	32	33
13	29	16	50	Affinity groups	43	50	32	33
11	21	16	17	Worksite marketing/employers	32	43	24	17
7	14	20	33	E-marketplaces	32	36	28	33

-

- Selling and servicing through carriers' websites and call centers will grow sharply, providing them with direct access to customers and customer information.
- Carriers will also rely on a widening array of distribution channels, especially partner websites, e-marketplaces, affinity groups and employers.

Source: The Economist Intelligence Unit Ltd. and PricewaterhouseCoopers 2001



Forrester (GMAC123.com 7/27/01)

GMAC recently bought the technology platform of eCoverage to create an end to end selling platform, combining affinity group marketing and automated sales fulfillment

The Future

Market Vision

Why Forrester thinks GMAC will succeed:

Pushing acquisition costs to new industry lows

• Lower than USAA? Affinity group reduces advertising and direct marketing. Technology will help close new business without call centers or agents.

Reaching a new, growing segment of customers

 Modern conveniences of web technology backed by an A+ Rated Insurance Company

Maintaining competitive loss ratios

 Lack of existing customer base was a significant challenge to eCoverage and Esurance. It's difficult to make informed pricing decisions solely on new business. GMAC can mine existing customer data and tap into existing claims network.

Booz-Allen 4th Annual elnsurance Study

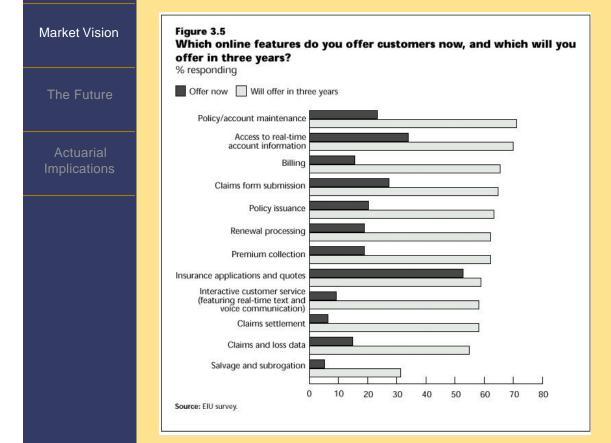


Market Vision

The Future

- Insurers are far behind banks and brokerages. Less users and each user spends less time on the site
- Changes in the study over time:
 - 1997: Brochureware.
 - 1999 14% of sites have advanced features.
 - 2001 43% of sites have advanced features
 - Fewer than 50% of sites allow users to view their accounts online, a basic feature of bank and brokerage sites
 - Testing 50 Insurance web sites, 54% did not respond to an email question within one day, and 28% did not respond at all!
 - 15% can track customer activity <u>across</u> channels

Insurance providers will offer more advanced customer services online.

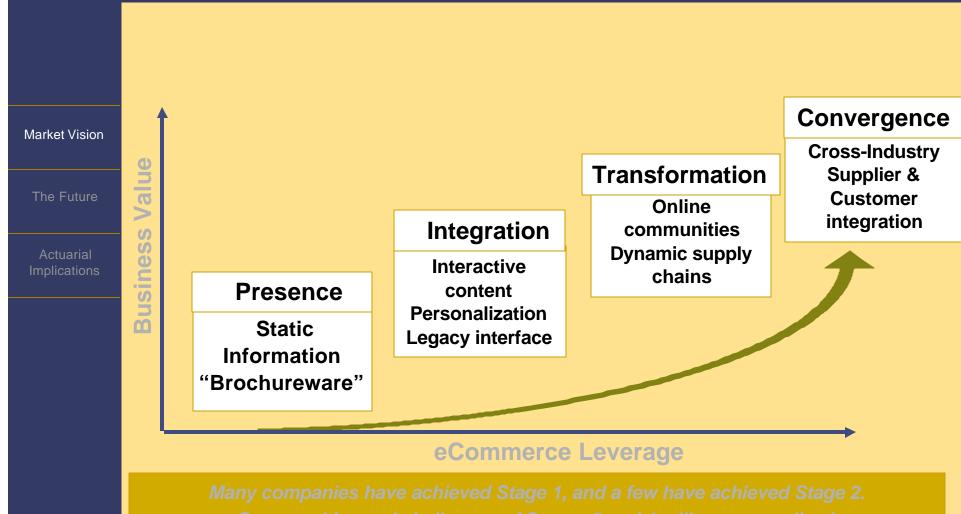


- Respondents plan to increase the number and complexity of online offerings.
- These will include online claims settlement, real-time customer service and billing.
- Web-enabling these activities will be more difficult and expensive than putting basic functions online, however – companies will need to find innovative means for funding these investments.

Source: The Economist Intelligence Unit Ltd. and PricewaterhouseCoopers 2001



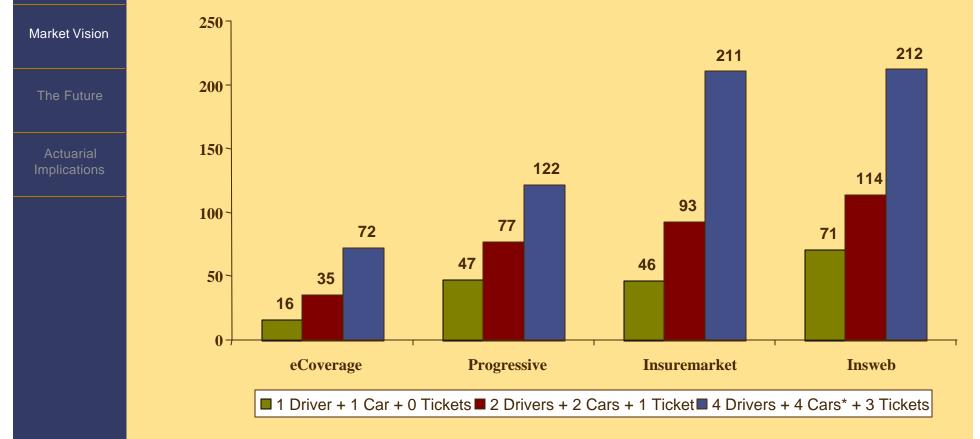
What will elnsurance companies look like



Opportunities and challenges of Stages 3 and 4 still are not realized.

elnsurance - keeping the process simple

Number of questions to get a quote



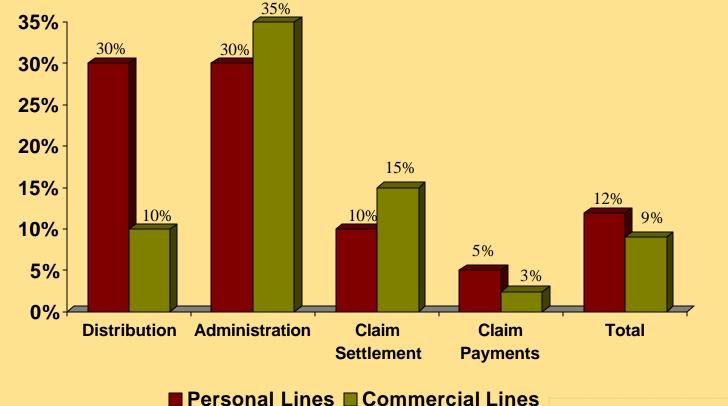
*Progressive only allows three cars to be quoted online.



Casualty Loss Reserve Seminar

US P&C eBusiness Savings Potential

Assuming all property/casualty insurers exploit the entire range of eBusiness opportunities, the industry could see the following savings:



Source: Swiss Re's Sigma

Market Vision

The Future is Right Around the Corner

Virtual Insurance Companies

• Outsourcing of value chain items to an ASP (APO)

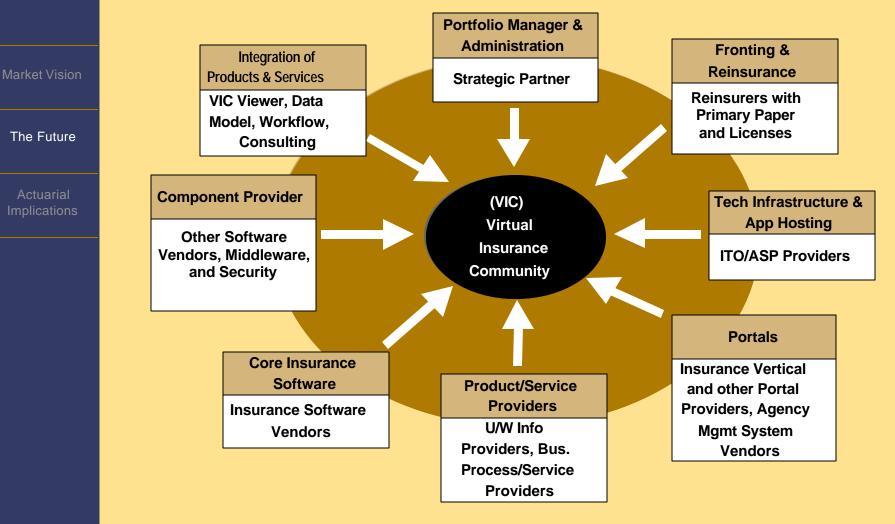
Market Vision

The Future

- As separate branch (dot corp) or dot com
- Insurance e-Marketplaces, Exchanges
 - Claims (P&C) and reinsurance e-markets are being developed
- Online settlement, risk transfer
- eClaims
- New Technologies
 - Smart cards
 - Wireless (Progressive WAP, Palm)

Virtual Insurance Communities

Here is one approach some companies are using



Online Exchanges / Marketplaces

GRXTECHNOLOGIES[™]

powering global risk partners

Market Vision

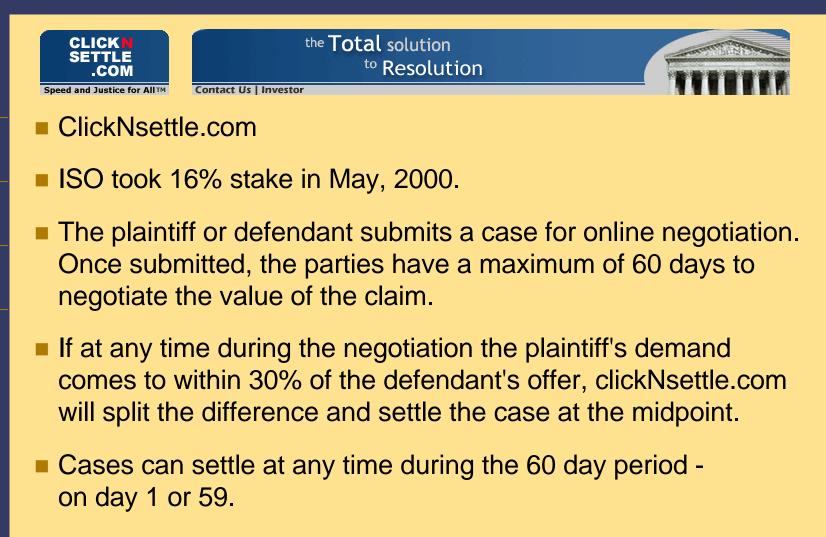
The Future

- Actuarial Implications
- GRX Technologies (GRX)
 - Global Risk ExchangeSM
 - Commercial Coverages
- Bringing the traditional insurance supply chain online.
 - Risk Managers Brokers Underwriters
 - Collaborating in the same secure environment
- E-business Benefits
 - Manage store and manage risk-related data
 - **Transact** digitize the risk-placement process
 - Collaborate share knowledge via online workroom tools

On Line Settlement

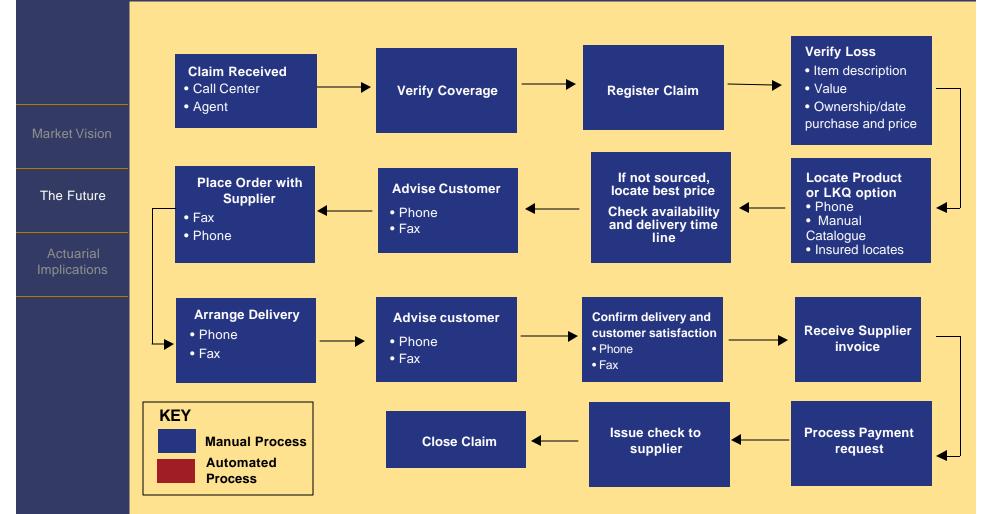
Market Vision

The Future



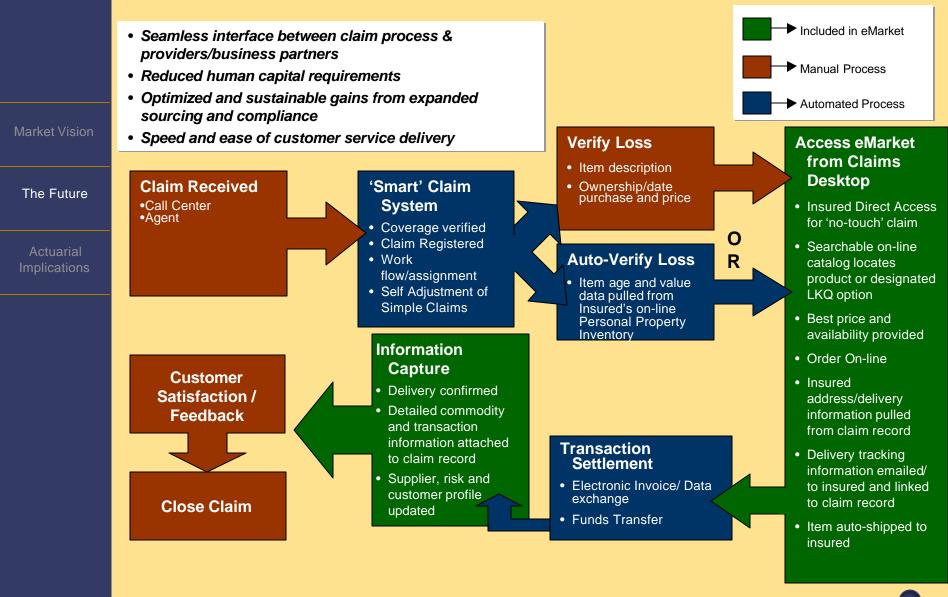
www.cybersettle.com offers similar services.

eClaims - Process Moves From Here...



Manual process & information gathering – Multiple work steps, fragmented approach 'Cash out' is faster and easier

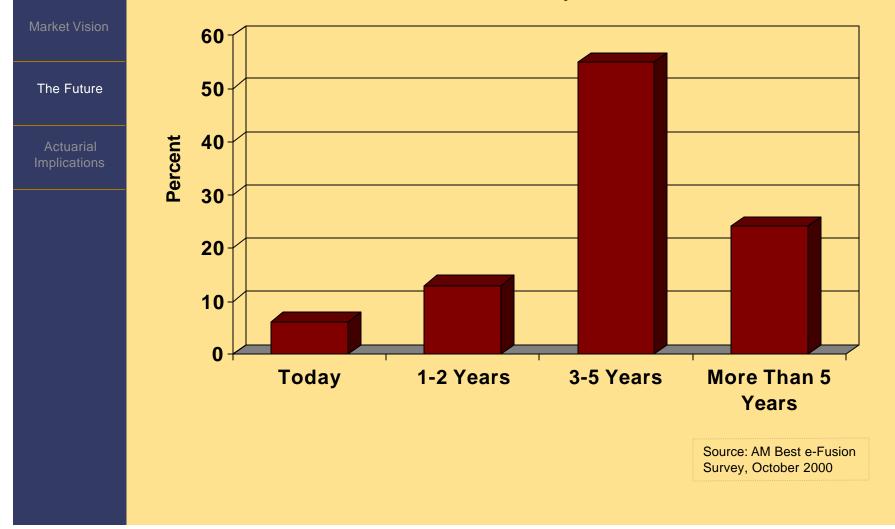
eClaims - . . . to Here



¹⁷

How long will it take?

How long will it take for the Internet to mature into a meaningful medium for the insurance industry?



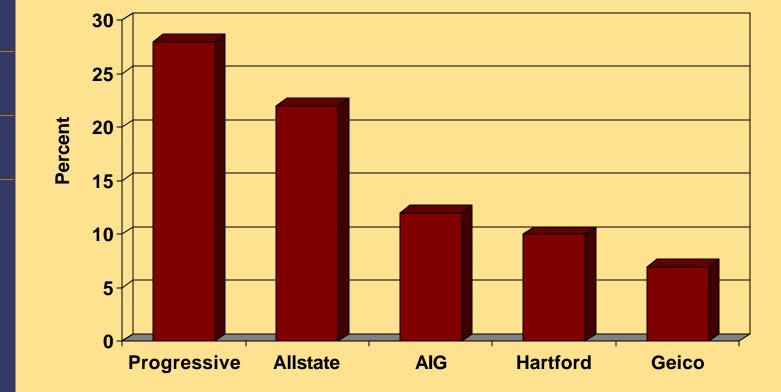
Who are the leaders?

Who are the most e-savvy insurance companies?



The Future

Actuarial Implications



Source: AM Best e-Fusion Survey, October 2000



Actuarial Implications

Insurance on the Internet

Casualty Loss Reserve Seminar

The Actuary and elnsurance

- Speed, Speed, Speed
- Or is that Data, Data, Data
- Market Vision

The Future

Actuarial Implications

- Given recent dotcom failures, actuarial analysis of results may be more critical than ever
- Member of Technology Team
 - Actuaries can play key roles in developing and implementing technology strategies
- Productivity Improvements
 - Use of internet to increase efficiency of day-to-day activities
- Financial Reporting
 - Real-time management reporting
 - Asset/liability applications

How is reserving affected by elnsurance

Lack of data

Market Vision

The Future

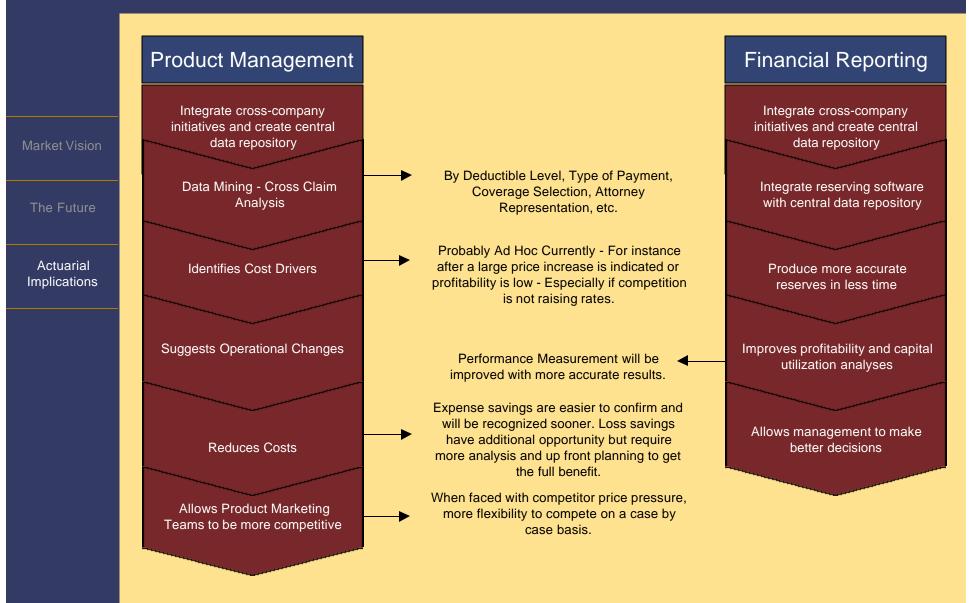
- Seasoning of Startup books must be considered
- Speed up of claim and reserving process may lead to overstatements
- Profitability expectations of business generated online can affect a-priori loss ratios
- Quality of data anecdotal evidence suggests that online submissions are <u>more</u> accurate than agent submissions

Actuarial Risk Areas for elnsurance

Actuaries can help navigate the choppy waters of elnsurance:

Market Vision		Issue	Discussion	Opportunities	
The Future		 How do you identify or "prove" savings to business users How long will it take for analysts to 	 Misinterpretation of performance measurement statistics could result in opposite of intended effect 	 Early testing and sampling to develop transition expectations Develop and communicate integrated methods to accelerate recognition 	
Actuarial Implications	Speed / Measurement	recognize savings	 Without special preparation, recognition will take several years. Risk of essentially "flying blind" 		
	Data Integrity	 Vast majority of data may come from legacy corporate database The database may touch all aspects of the statistical process, be very large, and have significant historical inertia behind its structure 	 elnsurance information will likely feed directly into the corporate database, so issue must be addressed Corporate database may viewed as "sacred" by users Users may rely on other groups to ensure data integrity. They may assume data will look/feel the same both before and after elnsurance 	 Must decide early on what changes will need to be made to corporate database to handle new data elements generated by elnsurance Consider going around the database for some functions 	

Actuarial Opportunities for elnsurance



Actuarial Opportunities

Data Mining

 Mining of corporate databases to price and reserve more accurately and more quickly

Actuarial Systems Integration

Reserving and pricing software can (should?) be integrated with overall corporate initiatives

Non-Actuarial Systems Integration

 Actuaries can serve as a critical link between the technology initiatives and company operations

Rapid Product Development and Rate Filing

 Countrywide, multi product filings will need to be done in a matter of months instead of years

Automated Underwriting

Online distribution will require streamlined underwriting

Market Vision

The Future

Conclusion

Things are Going to Change

Market Vision

The Future

- Actuaries Should Have a Significant Role
- You Can Have an Impact on Your Company Today