

Harnessing data and analytical tools for large complex economic damages

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Agenda

- Introduction
- Key issues in complex claims
- Management of data
- Going beyond the data

Meet your presenters



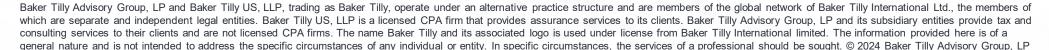
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Forensic accounting and analysts



Exposure analysis



Models



Model audit



Data analysis and case management



Detailed loss calculations



Expert witness work



Deposition / trial work

Current climate / key issues

Getting a handle on claims data volume

Damages – policy allocations

Policies exhaustion – excess carrier concerns

Business interruption claims and complex liability analysis

Data management and analysis – transparency

Examples of use

Application of data analytics and data tools:

- Managing of insurance claim
 - Damages exposure, both claims management and litigation
- Internal reporting
 - Requesting authority
 - Setting reserves
 - Establishing settlement appetite
- Analyze reinsurance coverage Who's POV?

Applications

- Product recall and liability cases
- Sexual abuse and other complex cases
- Wage and hour disputes
- Legal fee reviews
- Commercial / economic disputes

Case study

- Use of a "forever chemical" in manufacturing
- Resulted in adverse health effects for employees, end users and surrounding communities
- Estimated that thousands of lawsuits will be filed in MDL
- Hundreds of millions in both indemnity exposure and defense costs

Management of data

Where do I begin with no data?

- Claims early phase little to no data options;
 - Examine policies in question
 - Study cases of similar nature
 - Use historical data and other publicly available information
 - Develop extrapolations from minimal data

Managing large data?

- Forensic technology and A.I.
- Streamlining review process use of A.I. and other tools to extract and standardize data
- Provides analytical results and understanding of the makeup of the raw data before any further analysis is done
- Creation of platforms and tools to manage / compile data for ease of use

Going beyond the data



Building the model

Example case issues:

- Policy chart provided is 30+ years of coverage
- Complex tower of insurance that changed year-over-year
- Inclusion of defense costs
- Application of retentions and deductibles
- Application of policies as per-occurrence vs. aggregate
- Policy exclusions
- Allocation methodology
- Future claims
- Overlapping insurance

Building the model



Analyze and understand the inner-workings of the coverage charts



Review policy language



Review legal guidance provided by counsel



Review claimant data

Analyzing the data received

Building the model – what the client sees

Criteria

<u>eneral:</u> Claims Value	PMV
Allocation Methodology	Pro-Rata
Allocation Dates	Mix
Number of Occurrences (A)	One Per Claim
972 - 1975 Policy Allocation:	
Drop Down	No
Professional Liability (A)	No
Policy Application	Per Term
Policy Limit	Per Occurrence
985 - 1986 Policy Allocation:	
Drop Down	No
	Per Occurrence

Per Occurrence

Drop Down Policy Limit

Key Results

		1/1/1961 to	7/15/1972 to	7/2/1975 to	8/1/1985 to	7/2/1986 to	7/1/1991 to	7/2/1992 to	
Description	N/A	7/14/1972	7/1/1975	7/31/1985	7/1/1986	6/30/1991	7/1/1992	12/31/2008	Total
Claim Count (B):									
Severe Abuse	0	34	27	75	22	40	21	46	265
Non-Severe Abuse	0	153	117	396	78	195	102	280	1,321
Total Clans Count	0	187	144	471	100	235	123	326	1,586
Total Exposure	\$0	\$37,305,727	\$21,438,327	\$175,645,029	\$12,190,920	\$85,442,677	\$18,498,173	\$140,229,147	\$490,750,000
Of Which:									
Primary Policy	n/a	n/a	\$21,438,327	n/a	\$12,190,920	n/a	\$18,498,173	n/a	
Excess Policy	n/a	n/a	\$0	n/a	\$0	n/a	\$0	n/a	
Other Excess Policies	n/a	n/a	\$0	n/a	\$0	n/a	\$0	n/a	
XXX Exposure	n/a	n/a	\$0	n/a	\$0	n/a	\$0	n/a	\$0

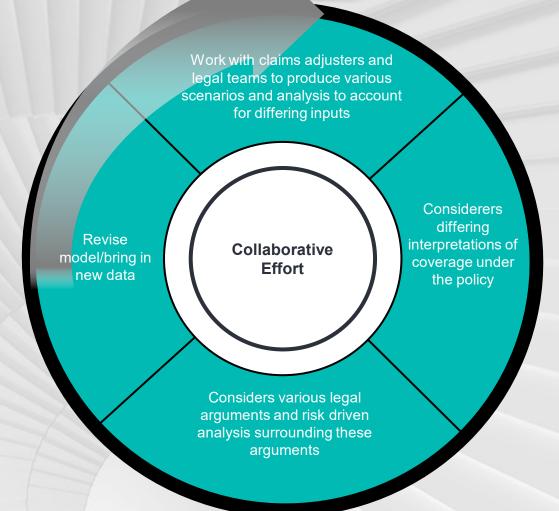
Criteria

General:

Claims Value		PVM	
Allocation Methodology		Pro-Rata	~
Allocation Dates	Trigger		
Number of Occurrences	Pro-Rata	One i ei olallii	
Settlement Value Disco	unt	0.00%	

^{*} User controlled fields are denoted in purple

Collaborative effort



Modeling deliverables

All tools have pros and cons – and often a combination is best

- Great for rapid prototyping
- Broadly familiar

Excel



- Great for communicating insights on lots of data
- Can be shared inbrowser

Tableau/PowerBi



- Enormously flexible and performant
- Specialized

Python/R



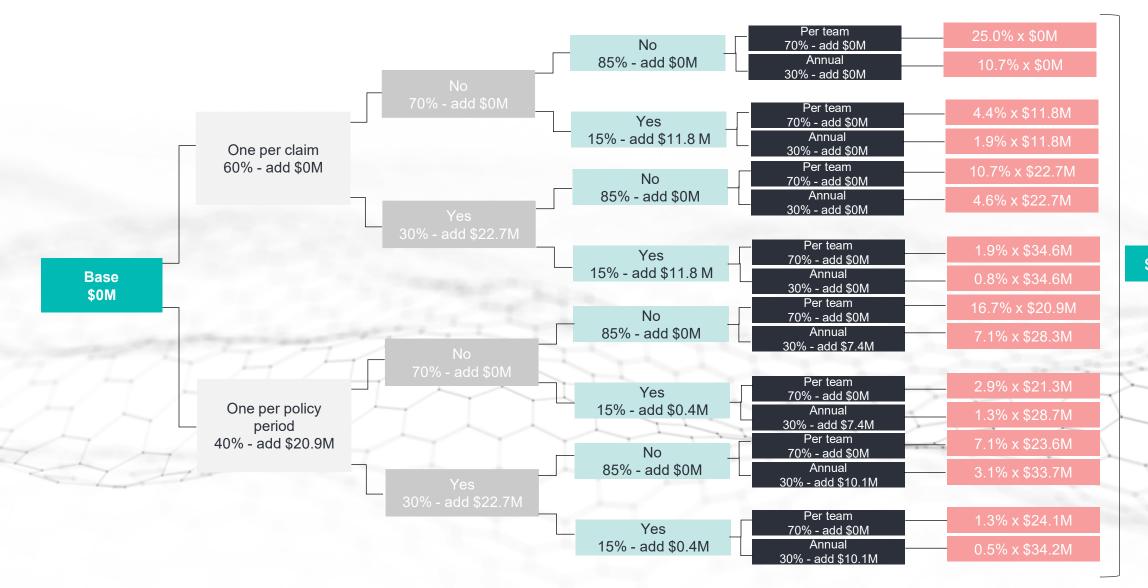
 Provides clientavailable inputs and controlled access for specialized tools

Cloud Hosting



Decision tree analysis

Example decision tree



\$14,855,491

Questions?

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