

# Choosing Your SIR It's More Than A Number

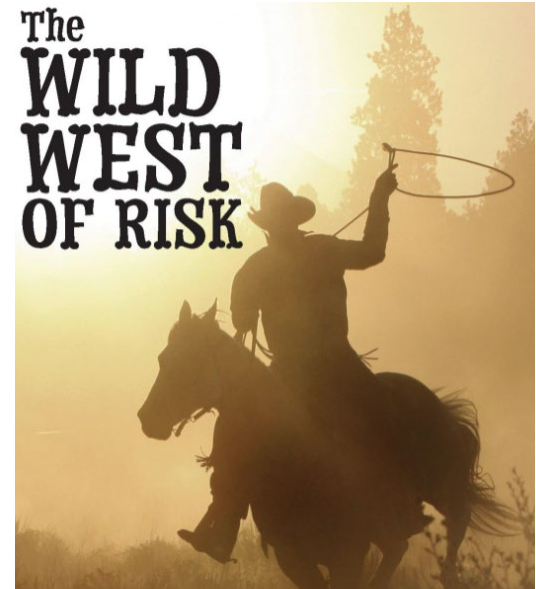
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*presented by*

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FVP, Alliant Insurance Services

*and*

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President and Principal, Bickmore Actuarial



*PARMA Conference 2021*





# Purpose

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Outline the objective and subjective criteria used to evaluate an appropriate  
Self-Insured Retention (SIR)  
*or retained risk*  
for your agency.



# Outline

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Risk Financing Objectives

Objective Criteria – “the numbers”

Subjective Criteria – “the gut feeling”

Putting them all together

- Case studies – *In the LIVE Q&A*

From there it's a *crapshoot!*



# To Answer Your Question

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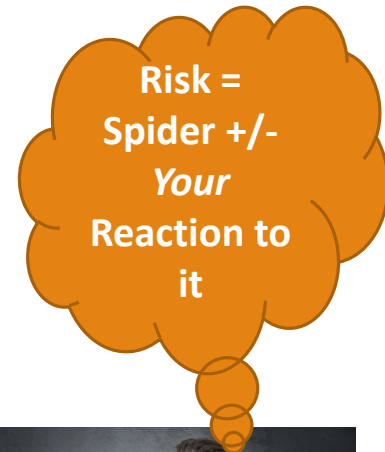
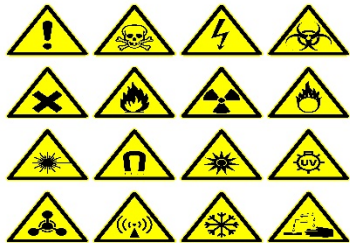
There is no single  
“correct” answer to the  
SIR question...

...but we will present  
some guidelines to help  
you come to a  
“reasonable” answer



# NOTE - ALL Risk Analysis Has Objective and Subjective Components!

# RISK = Hazard + Outrage\*

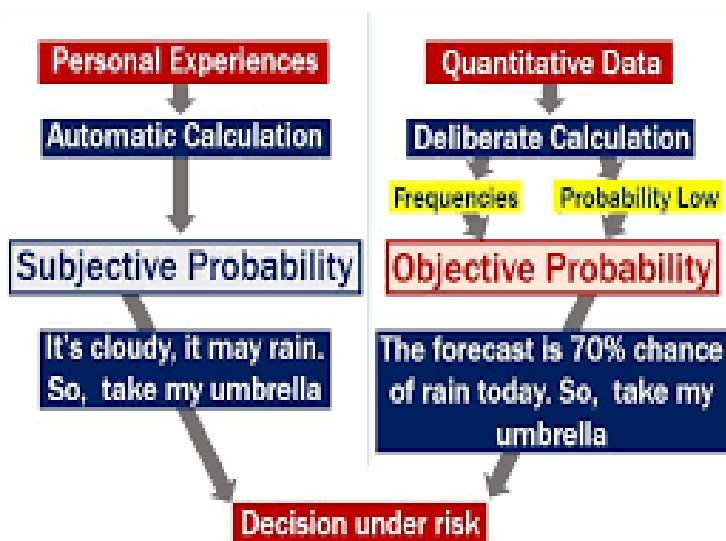


***Objective and Subjective Components***

\*Peter Sandman: [www.psandman.com](http://www.psandman.com)



# Objective v. Subjective *Probability*



**Objective Probability** is the likelihood of the outcome of any event based upon recorded measurements rather than subjective analysis.

**Subjective Probability** comes from our personal judgment of an event occurring, using our beliefs, hunches, gut feelings, instincts, and anecdotal evidence.

Subjective probability varies from person to person. Objective probability does not.

However, in either case – subjective or objective probability – the calculation is just a guide.

***Neither one can tell us with certainty what the outcome will be.***

***No one is an expert on the future!***

# Common Risk Financing Objectives



## Money to pay the claims!



**Stability** – *avoid swings* in funding or assets

**Efficiency** – *lower cost of risk* than insurance

**Services** – *choice of* risk control, claims, admin, other

**Compliance** - regulatory or business/contractual needs



# Objective Criteria “The Numbers”

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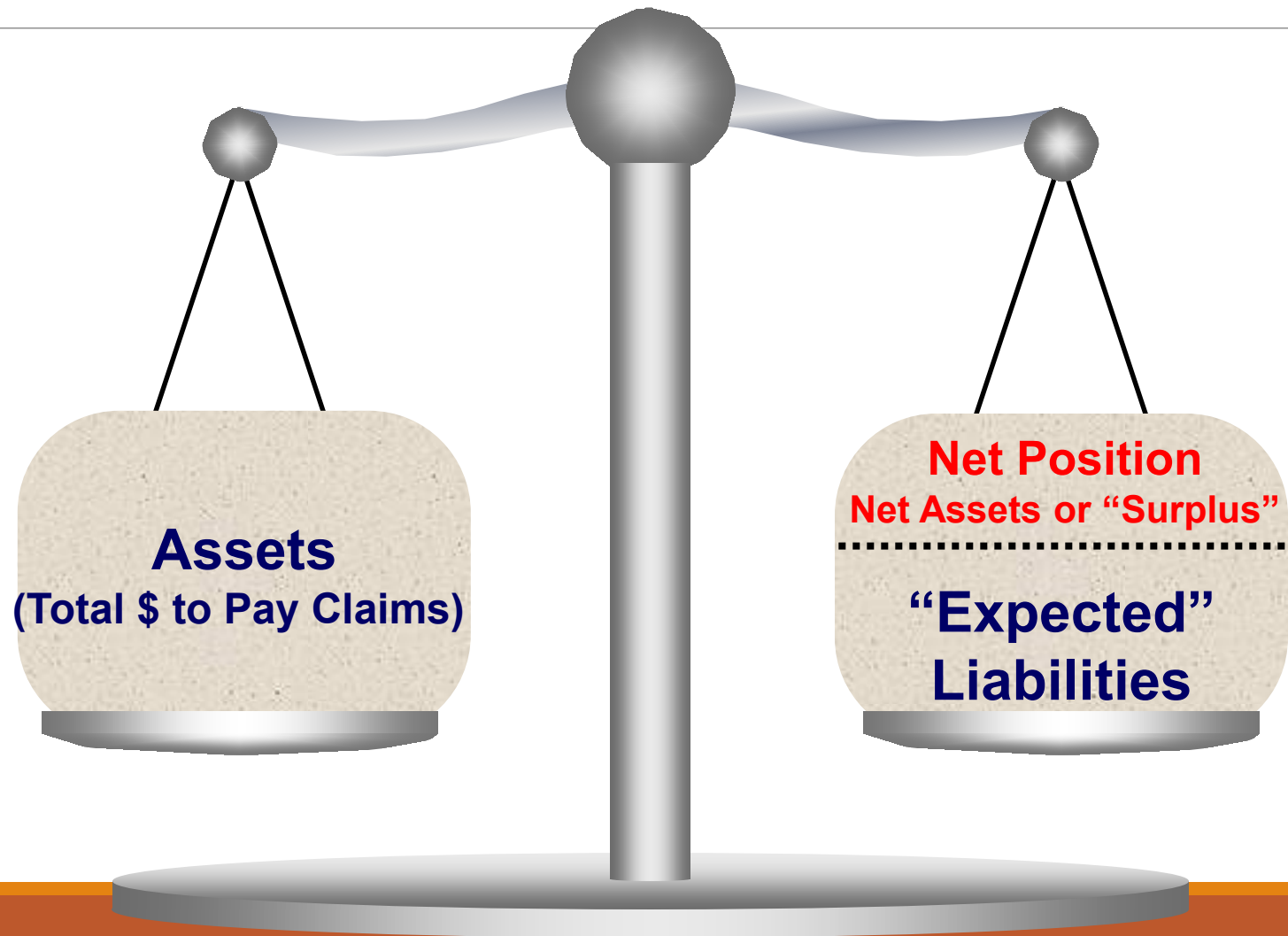
- Liabilities (Ultimate Losses)
- Net Position/Assets/**Surplus**
- Funding Benchmarks
- Financial Ratios
- Claims
  - Stratification
  - Simulation





# Balance Sheet

(Statement of Net Position or Net Assets)





# At Least Cover Your “Expected” Liabilities

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With any sizeable SIR or accumulation of long-tail liabilities your financial auditors will expect you to have reserves at least equal to “Expected” Liabilities (actuary estimate at @ 50% Confidence Level).

If you have sufficient cash flow, “pay as you go” is the least expensive risk financing option but usually the least practical, mainly due to additional ***funds needed to absorb variance*** in losses.



# Variance...

When you see it online vs When it arrives in the mail



True 😂😂😂

*"Life is what happens to you while you're busy making other plans".  
- Allen Saunders*

Loss estimates are inherently **variable**

Confidence Level is a statistical measure

Varies by coverage

- Excess Liability – very variable
- WC – indemnity less variable than medical part
- Auto Liability – generally more stable

***The greater the SIR, the greater the potential for variability***



# Funding Benchmarks

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## Outstanding Liabilities

- “Must have” “Expected” @50% Confidence Level
- “Should have” 70% - 90% CL
- ”Nice to have” above 80%-90% CL = **Leverage**

## Yearly Funding

- At least “Expected”, goal of 80% *or higher*
- OL Above or below 90% = dividend or assessment (“retro”)

*Discount Factors in Line*  
*With Investment Policy & Returns?*



# Surplus is Key Measure

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Assets minus Liabilities = Surplus

Surplus a.k.a.:

- Net assets
- **Net position**
- Retained earnings

**Reserves in excess of Expected Liabilities**



# Uses of Surplus

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Absorb adverse/catastrophic development

Rate/funding stabilization

**Increase SIR**

Expand coverage

Excess coverage “failures”

- *even 36 years later!*

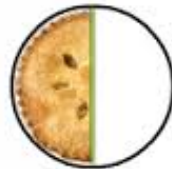


# Key Ratios Used to Assess Surplus

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Focus on 3 Risk Exposures:  
*Losses, Reserves & Pricing*

1. Surplus to SIR
2. Liabilities (Loss Reserves) to Surplus
3. Premium (Annual Funding) to Surplus



1:2



2:4



4:8

# How Many “Hits” Can You Take?

## Surplus to SIR

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Measures **exposure to large losses**

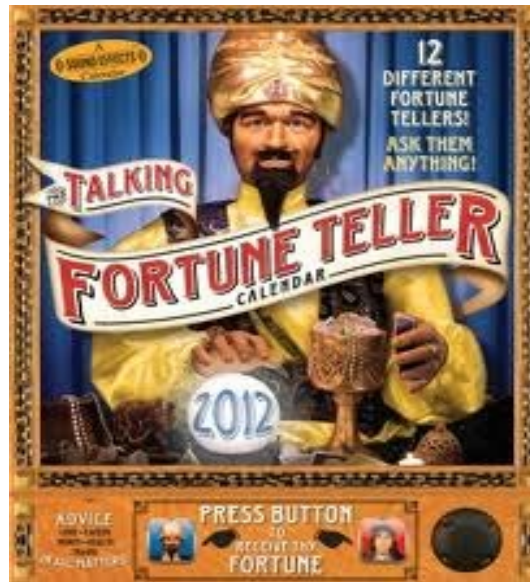
*High Ratio* Desirable, > 5:1

***Varies based on SIR level***



# How Good is Your Actuary?

## Liabilities to Surplus



Measures **exposure to reserving errors**

*Low ratio desirable, < 1.5:1*



# How Good Is Your Underwriter?

## “Premium” to Surplus

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Measures **exposure to pricing errors.**

*A low ratio is desirable, < 1:1*



# What Are the Trends?

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**Surplus:** No more than 10% decrease

**Reserves:** No more than 20% increase

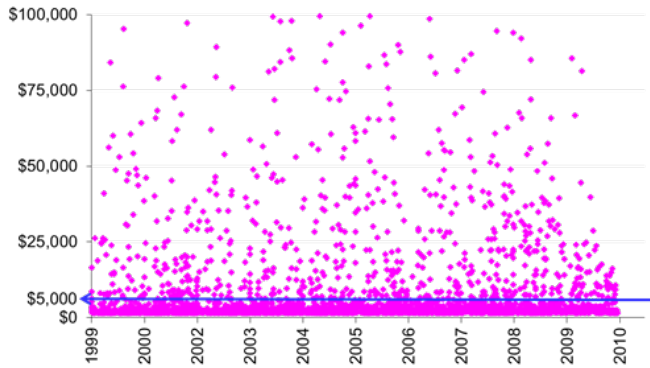
**Premium:** No more than 10% increase

*p.s. One year's result is not a trend!*



# Claims Stratification

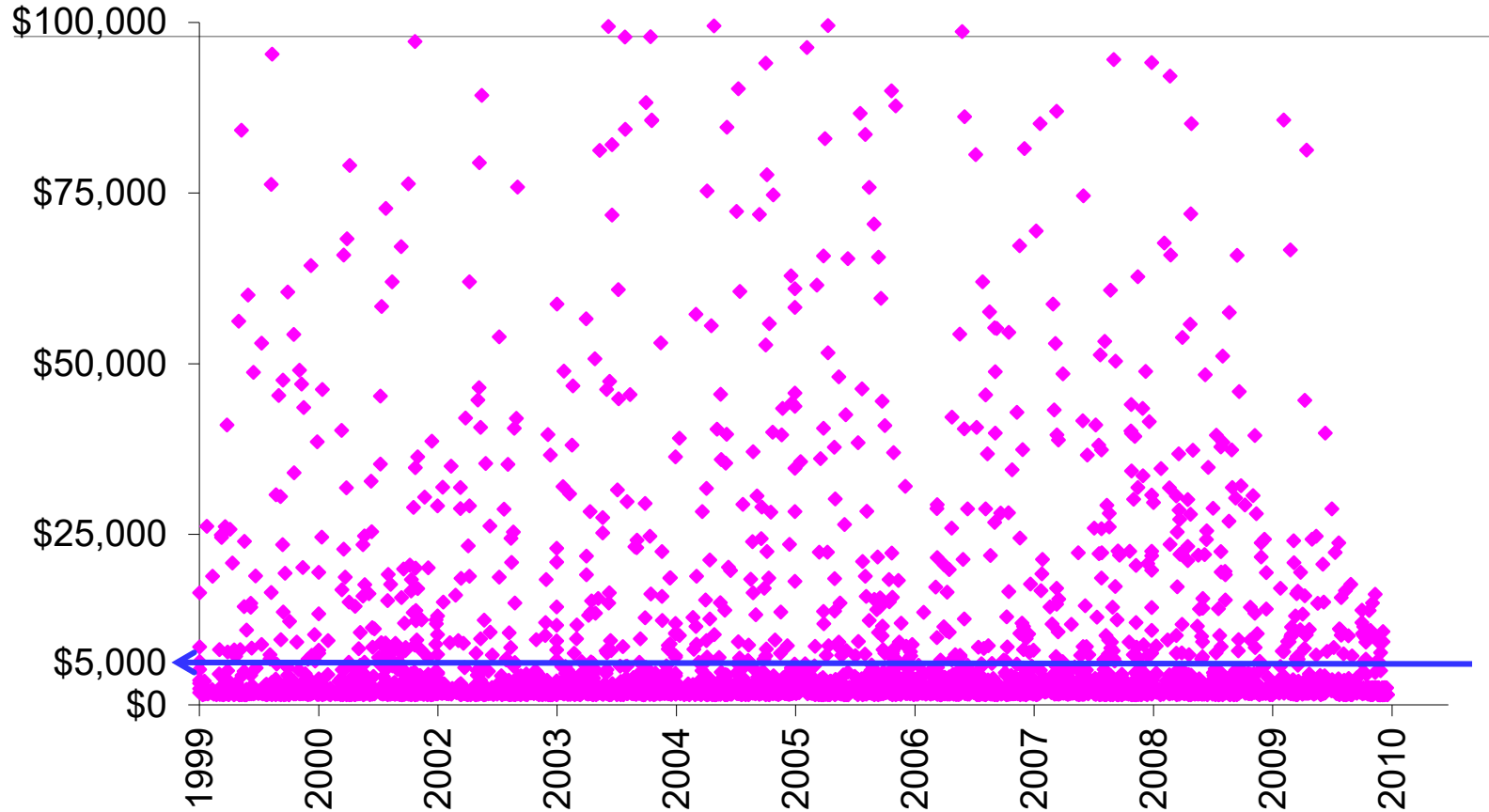
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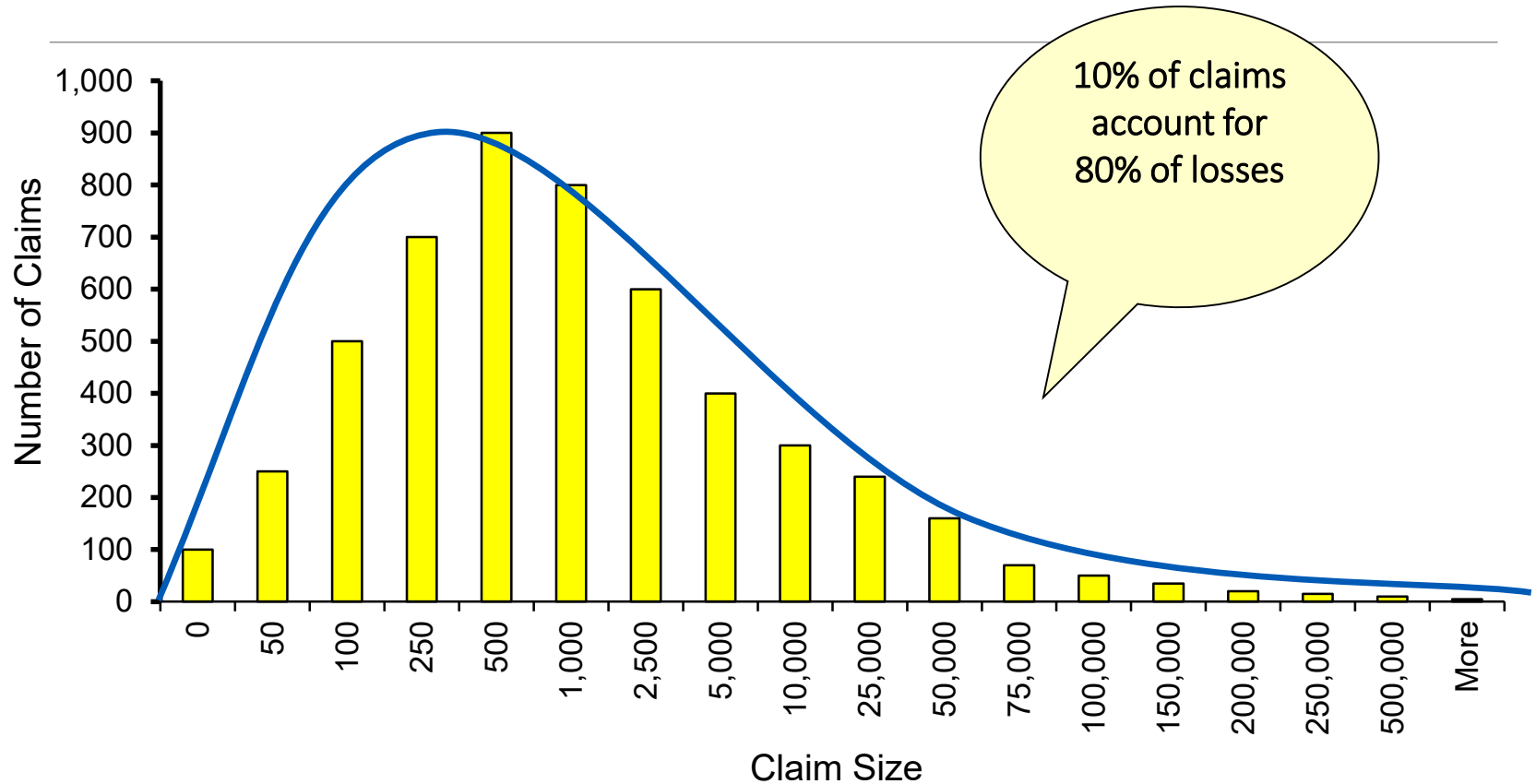
- Provides insights into magnitude and distribution of claims
- **Facilitates alternative SIR analysis**
- Focus on the big \$ claims
- Use to set up loss control metrics



# Distribution of Incurred Losses



# Stratified Losses – histogram, used to fit a curve





# Monte Carlo Simulation

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Select number  
of claims



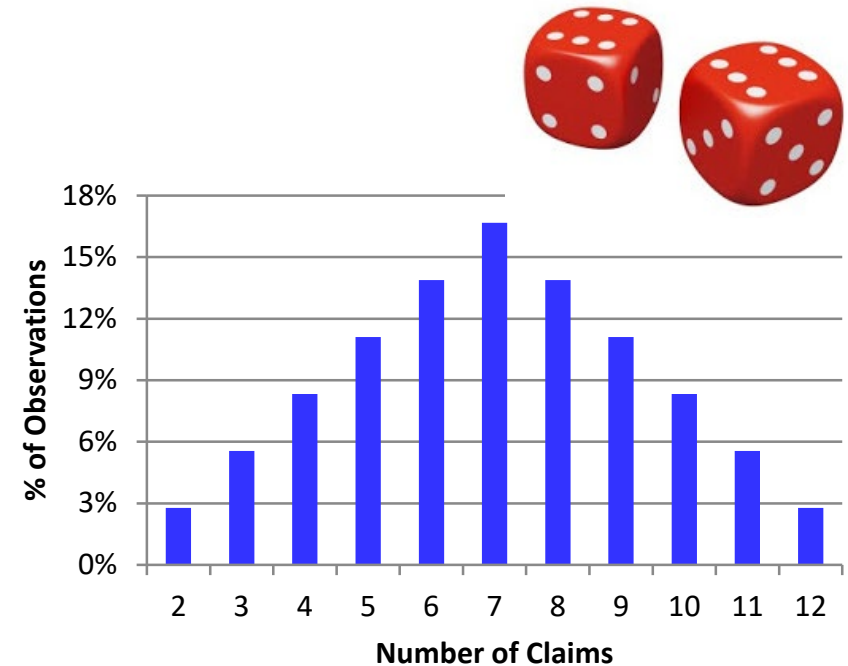
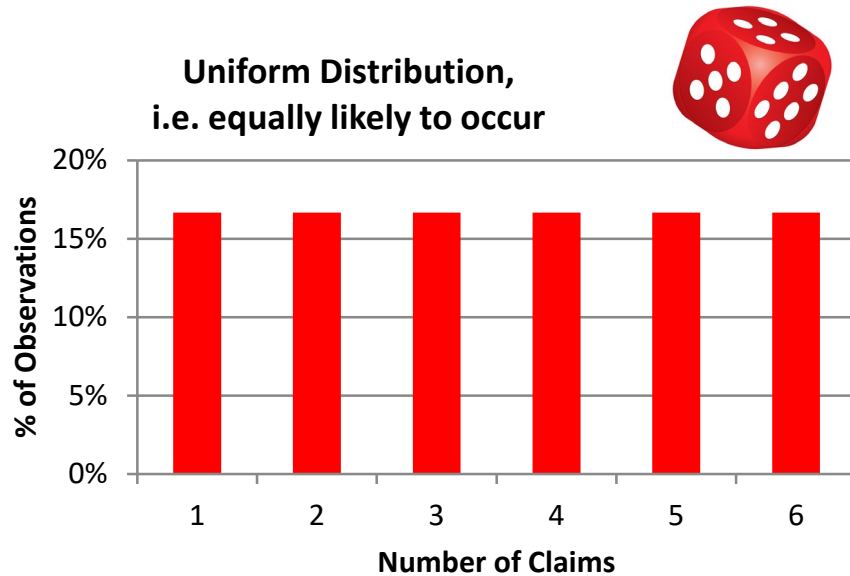
For each claim,  
select size

Use claim stratification information to simulate claims process

1. Number of claims (frequency)
2. Average claim size (severity)



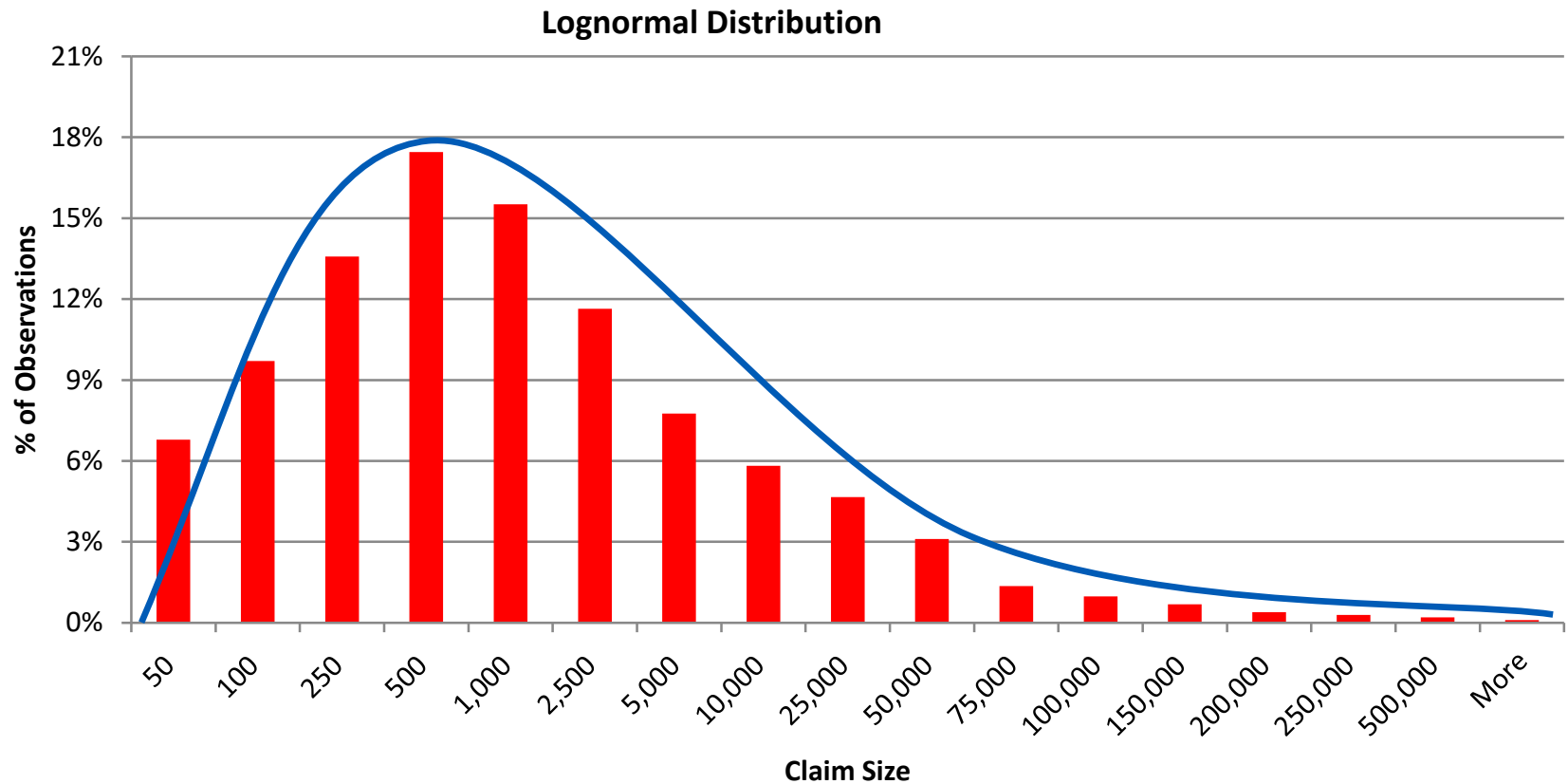
# Monte Carlo Simulation Number of Claims







# Monte Carlo Simulation Claim Size





# Monte Carlo Simulation

## Example – Simulated Unlimited Claims

| Simulation Number | Number of Claims | Unlimited Claim Amount for Claim # |          |         |         |          |                 | Aggregate Losses |
|-------------------|------------------|------------------------------------|----------|---------|---------|----------|-----------------|------------------|
|                   |                  | 1                                  | 2        | 3       | 4       | 5        | 6               |                  |
| 1                 | 5                | \$9,000                            | \$12,000 | \$3,000 | \$4,000 | \$11,000 | \$39,000        |                  |
| 2                 | 3                | 7,000                              | 3,000    | 11,000  |         |          | 21,000          |                  |
| 3                 | 4                | 3,000                              | 6,000    | 4,000   | 11,000  |          | 24,000          |                  |
| 4                 | 2                | 13,000                             | 12,000   |         |         |          | 25,000          |                  |
| 5                 | 5                | 4,000                              | 8,000    | 12,000  | 4,000   | 4,000    | 32,000          |                  |
| ...               | ...              | ...                                | ...      | ...     | ...     | ...      | ...             |                  |
| 9,999             | 2                | 9,000                              | 9,000    |         |         |          | 18,000          |                  |
| 10,000            | 3                | 10,000                             | 8,000    | 13,000  |         |          | 31,000          |                  |
| <b>Average</b>    | <b>3.5</b>       |                                    |          |         |         |          | <b>\$25,000</b> |                  |



# Monte Carlo Simulation

## Example – Ranked Simulated Claims

| Simulation Number | Aggregate Losses   | Rank           | Aggregate Losses   | Percentile | Confidence Level Factor |
|-------------------|--------------------|----------------|--------------------|------------|-------------------------|
| 1                 | \$8,401,712        | 1              | \$1,020,320        |            |                         |
| 2                 | 1,497,651          | 2              | 1,024,065          |            |                         |
| 3                 | 3,516,291          | 3              | 1,029,627          |            |                         |
| 4                 | 1,797,246          | ...            |                    |            |                         |
| 5                 | 2,870,778          | 5,000          | 4,025,944          |            |                         |
| 6                 | 4,187,925          | ...            |                    |            |                         |
| 7                 | 1,029,627          | 7,000          | 5,353,140          | 70%        | 1.25                    |
| ...               |                    | ...            |                    |            |                         |
| 9,999             | 1,954,018          | 9,000          | 8,849,910          | 90%        | 2.06                    |
| 10,000            | 2,509,543          | 10,000         | 155,734,676        |            |                         |
| <b>Average</b>    | <b>\$4,293,260</b> | <b>Average</b> | <b>\$4,293,260</b> |            |                         |

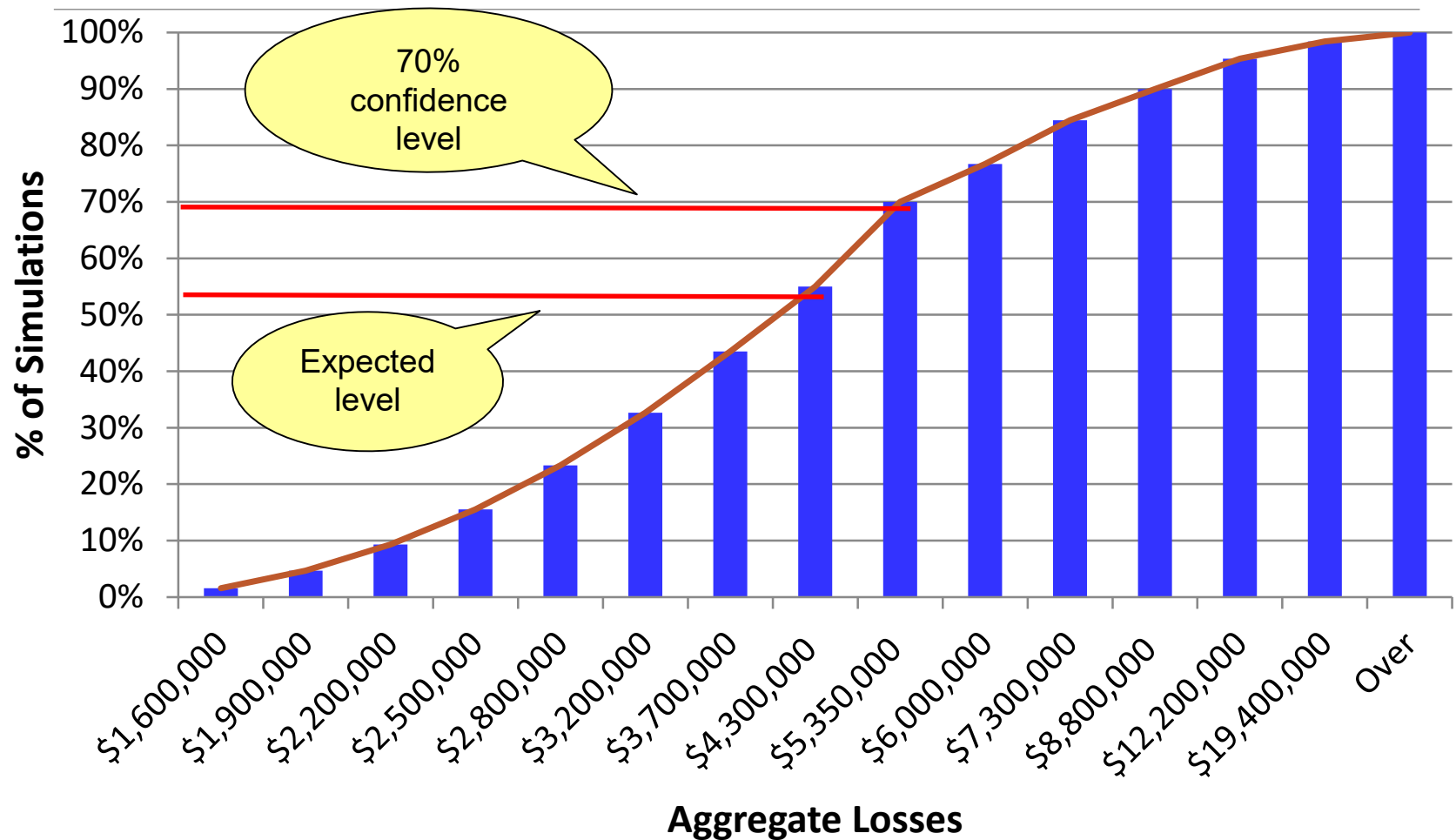
$\$5.35\text{M} / \$4.3\text{M} =$

$\$8.8\text{M} / \$4.3\text{M} =$



# Monte Carlo Simulation

## Example – Confidence Level





# Monte Carlo Simulation

## Example – Simulated Limited Claims

| Simulation Number | Number of Claims | Unlimited Claim Amount for Claim # |          |         |         |          |     | Aggregate Losses |
|-------------------|------------------|------------------------------------|----------|---------|---------|----------|-----|------------------|
|                   |                  | 1                                  | 2        | 3       | 4       | 5        | 6   |                  |
| 1                 | 5                | \$9,000                            | \$10,000 | \$3,000 | \$4,000 | \$10,000 |     | \$36,000         |
| 2                 | 3                | 7,000                              | 3,000    | 10,000  |         |          |     | 20,000           |
| 3                 | 4                | 3,000                              | 6,000    | 4,000   | 10,000  |          |     | 23,000           |
| 4                 | 2                | 10,000                             | 10,000   |         |         |          |     | 20,000           |
| 5                 | 5                | 4,000                              | 8,000    | 10,000  | 4,000   | 4,000    |     | 30,000           |
| ...               | ...              | ...                                | ...      | ...     | ...     | ...      | ... | ...              |
| 9,999             | 2                | 9,000                              | 9,000    |         |         |          |     | 18,000           |
| 10,000            | 3                | 10,000                             | 8,000    | 10,000  |         |          |     | 28,000           |
| <b>Average</b>    | <b>3.5</b>       |                                    |          |         |         |          |     | <b>\$23,000</b>  |



# Monte Carlo Simulation

## Example – Ranked Limited Claims

| Limited to \$250,000 per Claim |                  |
|--------------------------------|------------------|
| Rank                           | Aggregate Losses |

|        |             |
|--------|-------------|
| 1      | \$1,020,320 |
| 2      | 1,024,065   |
| 3      | 1,029,627   |
| 4      | 1,049,633   |
| 5      | 1,093,764   |
| ...    |             |
| 9,999  | 4,124,779   |
| 10,000 | 4,381,136   |

Average \$2,370,449

| Unlimited |                  |
|-----------|------------------|
| Rank      | Aggregate Losses |

|        |             |
|--------|-------------|
| 1      | \$1,020,320 |
| 2      | 1,024,065   |
| 3      | 1,029,627   |
| 4      | 1,049,633   |
| 5      | 1,093,764   |
| ...    |             |
| 9,999  | 107,523,846 |
| 10,000 | 155,734,676 |

Average \$4,293,260

| Increased Limits Factor |
|-------------------------|
|-------------------------|

$\$4.3\text{M} / \$2.4\text{M} =$

1.81



# Monte Carlo Simulation

## Example – Alternative SIRs





# So Which SIR Do We Pick?

You have \$3,500,000 in surplus.

| <u>SIR</u> | <u>Losses</u> | <u>Premiums</u> | <u>Reserves</u> | Surplus Requirements |                 |                   |
|------------|---------------|-----------------|-----------------|----------------------|-----------------|-------------------|
|            |               |                 |                 | <u>SIR 5:1</u>       | <u>Prem 1:1</u> | <u>Resv 1.5:1</u> |
| 150,000    | 1,934,000     | 2,321,000       | 4,642,000       | 750,000              | 2,321,000       | 3,094,667         |
| 250,000    | 2,370,000     | 2,844,000       | 5,688,000       | 1,250,000            | 2,844,000       | 3,792,000         |
| 350,000    | 2,671,000     | 3,205,000       | 6,410,000       | 1,750,000            | 3,205,000       | 4,273,333         |
| 500,000    | 2,938,000     | 3,526,000       | 7,052,000       | 2,500,000            | 3,526,000       | 4,701,333         |
| 1,000,000  | 3,339,000     | 4,007,000       | 8,014,000       | 5,000,000            | 4,007,000       | 5,342,667         |

Numbers Indicate:  
\$150K passes all three tests  
\$250K passes two tests, close on third  
\$350K passes two tests, not so close on third  
\$500K and up look too high





# Cost / Benefit Analysis

Compare Total Cost of Retained Losses and Excess Insurance.

|                       | Self-Insured Retention (SIR) |                |                |
|-----------------------|------------------------------|----------------|----------------|
|                       | <u>150,000</u>               | <u>250,000</u> | <u>350,000</u> |
| Retained Losses       | 1,934,000                    | 2,370,000      | 2,671,000      |
| Excess Insurance      | 2,750,000                    | 2,200,000      | 1,750,000      |
| Total Cost            | 4,684,000                    | 4,570,000      | 4,421,000      |
| Savings at Higher SIR |                              | (114,000)      | (263,000)      |
|                       |                              | -2.4%          | -5.6%          |

Higher SIRs are expected to cost less, but...  
“Do you feel lucky??”





# Subjective Criteria “The Gut Feeling”

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“Appetite”  
Claims  
Exposures  
Coverage  
Finances  
Projections

*Trends of above criteria*



# ID Your Philosophy

## What is your Risk “Appetite”?

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Most Public Agencies are conservative by nature and by regulation, including in their investment choices, and that limits their risk-taking ability.

But taking on too little risk in the long term is more expensive and not a good use of public funds.

*Finding the right balance, or appetite, for risk is as much art (gut) as science (numbers).*



# Claims



Losses above SIR

Nature & scope of individual claims

Major causes of loss

Predictability

Reserve changes

Reserving practices

Administration

“Social Inflation”

*Trends of above*



# Exposures

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New/emerging

Existing and unknown

Claims v. other agencies/companies

Legislation

Case law

*“But there are also unknown unknowns—the ones we don't know we don't know.”  
- Donald Rumsfeld*



# Coverage

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Change in coverage

Change in self-insured retention level

Change in excess insurers

Industry rating of excess insurers

Total limits, aggregates, stop-loss

Reputation of and relationship with excess insurers

- *Layered programs now necessary*



# Market Conditions

## HARD

## SOFT



Raise SIR?

Lower Limit?

Less Coverage?

Less Service?

Shorter Term?

Lower SIR?

Higher Limit?

More Coverage

More Service?

Longer Term?

*If you are not evaluating your SIR regularly you are missing out on taking advantage of market cycles!*



# Finances

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Financial objectives & strategies

Financial position as compared to benchmarks

Stability of funding, cash flow

Premiums/funding levels currently

Interest Income

*Trends of above*





# Projections

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## Actuary projections

- Do the numbers make common sense?
- Do they line up with your financials?

*How compare to insurance/other options?*

- **Number of years to fully fund the various SIRs**

Change in actuary?

**Confidence levels**

Full extent of actual ultimate liabilities known?

***Will the future look like the past?***



# Risk Pool Membership

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Attitude & Ability re Assessments/Retros

How are their ratios & benchmarks?

Size – numbers and trends

SIR – size and type(s)

**Excess insurance stability**

Board engaged, experienced, *get along*

*Common Vision?*

*Long-term commitment?*



# Other Factors

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Strategic Objectives

Change in administration/programs/staff;

**Political**

Services desired/needed

**Money**

*Others?*



# When In Doubt

*Run it through your mission statement*

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**What's Your Objective?**



**Stable, long-term funding of losses**



# And in the end ...

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It's a crapshoot!



Please join us for the  
**live Q&A after this session**  
for **case studies** and your  
chance to roll the dice and  
**be a hero!**



# Summary – “The Numbers”

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Losses are inherently **variable**

Variability cushioned by surplus

Set target financial measures:

- Reserves, premium and SIR to Surplus

Understand and apply ratios judiciously

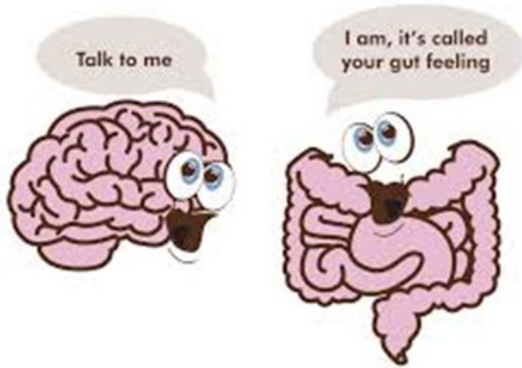
**Review plan periodically:**

- Details change  
(e.g., SIRs, membership, etc.)
- Compare to peer groups



# Summary – “The Gut”

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Numbers aren't the entire picture  
What are your goals? Mission?  
Does it make sense?

**Manage expectations**

Get buy-in from others

Put it all together and *have a reason for your decision*

*Roll the dice and hope for the best!*



# In the end,

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Do what you  
feel in your heart  
to be right—

for you'll be  
criticized anyway.

—Eleanor Roosevelt

*Just have your “reasoning” ready for the critics!*



# Questions & Case Studies Next!

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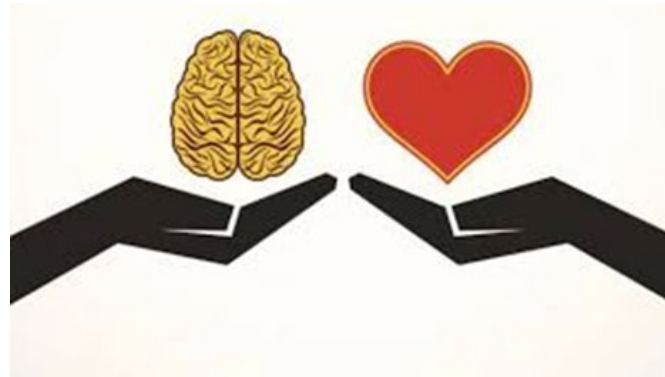
THANK YOU!

[marcus.beverly@alliant.com](mailto:marcus.beverly@alliant.com)  
[mharrington@bickmoreactuarial.net](mailto:mharrington@bickmoreactuarial.net)



# Choosing Your SIR LIVE Session Questions & Case Studies

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THANK YOU!

[marcus.beverly@alliant.com](mailto:marcus.beverly@alliant.com)  
[mharrington@bickmoreactuarial.net](mailto:mharrington@bickmoreactuarial.net)

 **Alliant**

 **parma**  
public agency risk managers association

 **Bickmore**  
Actuarial

# Case Studies

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Review the numbers and subjective criteria and make decision

Roll the die!

See how your decision plays out under three scenarios

# Case Study 1 - Work Comp

## *Let's Revisit Mike's Scenario*

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Small entity with \$150K SIR

*Considering increasing SIR*

Conservative Reserve Funding (>90% CL)

Losses fluctuate *+/- 10% to 40% per year*

Average 24 claims per year



# So Which SIR Do We Pick?

You have \$3,500,000 in surplus.

| <u>SIR</u> | <u>Losses</u> | <u>Premiums</u> | <u>Reserves</u> | <b>Surplus Requirements</b> |                 |                   |
|------------|---------------|-----------------|-----------------|-----------------------------|-----------------|-------------------|
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| 350,000    | 2,671,000     | 3,205,000       | 6,410,000       | 1,750,000                   | 3,205,000       | 4,273,333         |
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|                       | Self-Insured Retention (SIR) |                |                |
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|                       | <u>150,000</u>               | <u>250,000</u> | <u>350,000</u> |
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| Excess Insurance      | 2,750,000                    | 2,200,000      | 1,750,000      |
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| Savings at Higher SIR |                              | (114,000)      | (263,000)      |
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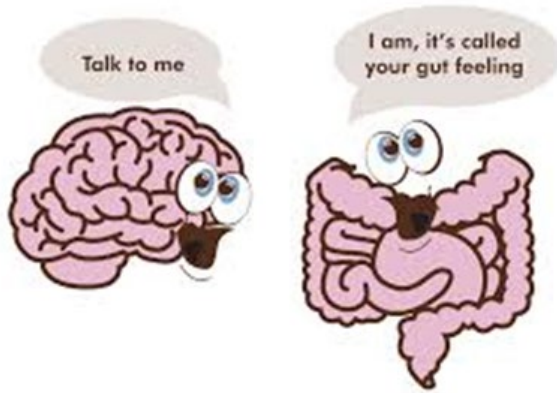
How many years will it take to fund the increased risk with the savings?

Higher SIRs are expected to cost less, but...  
 "Do you feel lucky??"



# Subjective/Other Factors

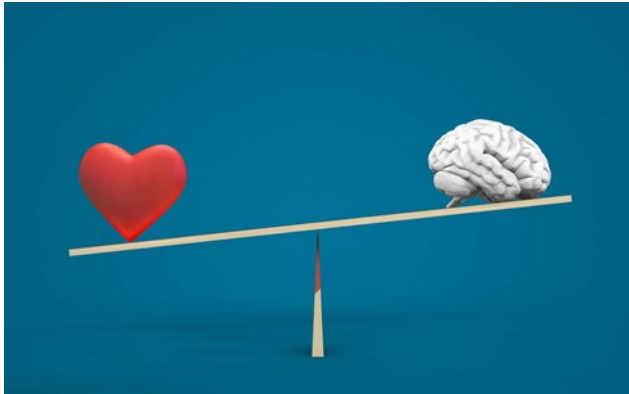
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- Sharing risk in excess pool
- Legislative reforms **increasing TD rates**
- Desire for more risk control services
- **Pressure to raid surplus for general fund**
- Conservative funding philosophy
- *Maintain potential to raise SIR if needed*
- Frequency down, severity creeping up
- Market is unsettled to increasing

# What SIR Do You Choose?

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Say at \$150K?

Go to \$350K?

Now ...let's roll the die!





# Results

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**Optimistic** – total losses less than expected – *you're a "Hero!"*

- \$150k SIR = + \$170k
- \$350k SIR = + \$210k

**Expected** – total losses about what's expected – *your actuary's a "Genius"*

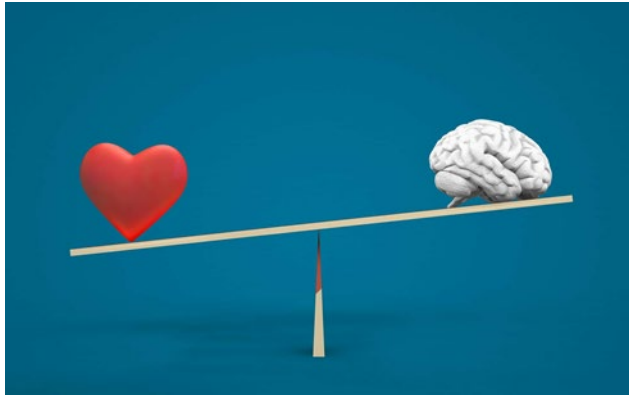
- \$150k SIR = + \$10k
- \$350k SIR = + \$50k

**Pessimistic** – total losses way more than expected – *start circulating resume*

- \$150k SIR = (-\$180k)
- \$350k SIR = (-\$480K)

# Case Study 2 – General Liability

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- Medium-sized entity
- \$1 Million GL SIR since 2015, was \$500K
- Never had a claim over \$500K
- Had 3 claims over \$1M since raising SIR
- Conservative, with assets > 90%CL, though they are projected to disappear
- Considering going back to \$500K SIR

# Recent Trends

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- Losses were trending down with more focus on risk management
- RM training and funds cut in recent years
- Recent >\$1MM losses = 2 EPL & 1 MVA
- EPL related to budget cuts, morale low
- EPL defense costs > \$500k per claim
- Budget is stabilizing after years of cuts, want to restore RM funding

# Other Factors

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- Political pressure to reduce EPL and overall “bleeding” from big losses
- Excess Pool - recent member disputes over coverage, net assets declining
- Insurance Market is **hardening**

*Lower SIR from \$1 mil to \$500,000?*

# Liability Program Balance Sheet

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| <b>Liability Program</b>        | <b>Actual</b>       | <b>Projected</b>    | <b>Difference</b>    | <b>Change</b>     |
|---------------------------------|---------------------|---------------------|----------------------|-------------------|
| <b>Balance Sheet Comparison</b> | <b>6/30/2020</b>    | <b>6/30/2021</b>    | <b>2020 to 21</b>    | <b>2020 to 21</b> |
| <b>Assets/GL Reserves</b>       | <b>\$26,000,000</b> | <b>\$22,000,000</b> | <b>(\$4,000,000)</b> | <b>-15%</b>       |
| <b>Less</b>                     |                     |                     |                      |                   |
| Liabilities at "Expected" CL    | \$17,000,000        | \$18,000,000        | \$1,000,000          | 6%                |
| <b>Equals</b>                   |                     |                     |                      |                   |
| <b>Net GL Assets/Surplus</b>    | <b>\$9,000,000</b>  | <b>\$4,000,000</b>  | <b>(\$5,000,000)</b> | <b>-56%</b>       |

# Liability Benchmarks

| Benchmarks (Min & Goal Ratio)                          | Actual    | Projected |
|--|-----------|-----------|
|  | 6/30/2020 | 6/30/2021 |
| Net Assets/\$1mil SIR<br>(5-10:1)                      | 9         | 4         |
| Net Assets/\$500K SIR<br>(5-10:1)                      | 18        | 8         |
|  |           |           |
| Liabilities to Net Assets<br>< 1.5:1, Goal 1:1 or less | 1.88      | 4.5       |
|  |           |           |
| Net Premium to Net Assets<br>< 1:1, Goal 0.5:1 or less | 0.17      | 0.20      |

# Liability Funding Options

| <b>Future Loss Funding</b>                  | <b>2020-21</b>     | <b>2021-22</b>     | <b>Difference<br/>21 to 22</b>      | <b>%<br/>Change</b> |                          |
|---|--------------------|--------------------|-------------------------------------|---------------------|--------------------------|
| <b>Loss Funding \$1M SIR<br/>(80% CL)</b>   | <b>\$3,500,000</b> | <b>\$4,000,000</b> | <b>\$500,000</b>                    | <b>14%</b>          |                          |
| <b>Excess Coverage \$9M</b>                 | <b>\$800,000</b>   | <b>\$950,000</b>   | <b>\$150,000</b>                    | <b>19%</b>          |                          |
| <b>Total Funding \$1M SIR</b>               | <b>\$4,300,000</b> | <b>\$4,950,000</b> | <b>\$650,000</b>                    | <b>15%</b>          |                          |
| <b>\$500K SIR Options</b>                   |                    |                    | <b>Difference From<br/>\$1M SIR</b> |                     | <b>Years to<br/>fund</b> |
| <b>Loss Funding \$500K SIR<br/>(80% CL)</b> | n/a                | <b>\$3,750,000</b> | <b>(\$250,000)</b>                  | <b>-6%</b>          | <b>2.00</b>              |
| <b>Excess Coverage \$9.5M</b>               | n/a                | <b>\$1,350,000</b> | <b>\$400,000</b>                    | <b>42%</b>          | <b>1.25</b>              |
| <b>Total Funding \$500K</b>                 |                    | <b>\$5,100,000</b> | <b>\$150,000</b>                    | <b>-7%</b>          | <b>n/a</b>               |

# What Do You Choose?

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SIR: \$1 Mil or \$500K?

Now ...let's roll the die!





# Results



**Optimistic** – Losses = \$2.0 Mil “Hero”!

- \$1 Mil SIR = + \$2 Mil
- \$500K SIR = + \$1.75 Mil

**Expected** – Losses = \$3.8 Mil “Employed”

- \$1 Mil SIR = + \$200,000
- \$500K SIR = - \$50K

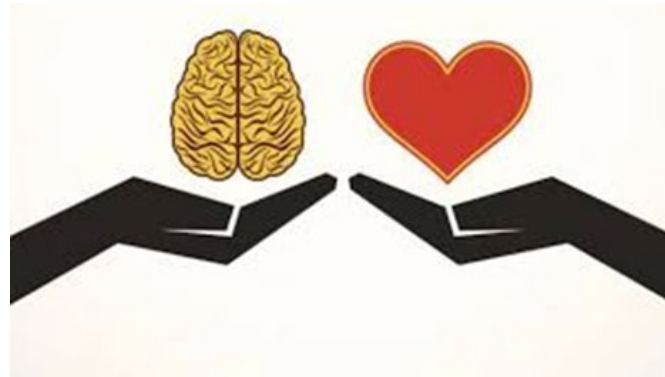
**Pessimistic** – Losses = \$7.0 Mil “It depends”

- \$1 Mil SIR = - \$1 Mil (\$5 mil capped)
- \$500K SIR = + \$750,000 (\$3 mil capped)

*With one “Limit” loss on the excess, no matter the limit!*

# Choosing Your SIR LIVE Session Questions & Case Studies

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THANK YOU!

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