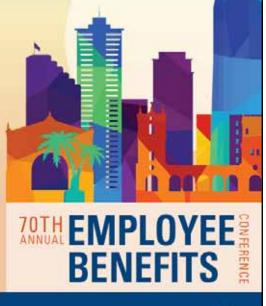
My Pension Plan Is Well-Funded—Now What?

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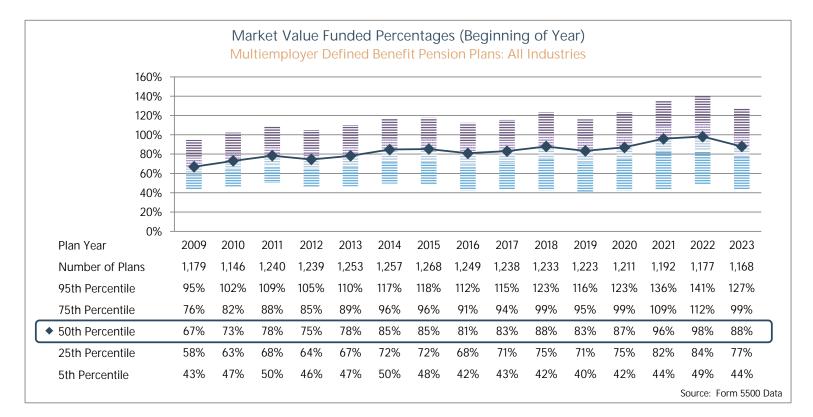


Today's Discussion

- Why are we here?
- What does it mean to be "well-funded"?
- Revisiting actuarial assumptions
- Risk management (staying well-funded)
- Benefit improvements

Why Are We Here?

Funded Levels Have Improved



Source: The Multiemployer Retirement Plan Landscape: A 15-Year Look

What Does It Mean to Be "Well-Funded"?

Polling Question

What do <u>YOU</u> think it means?

- A. 80% (threshold for green zone)
- B. 100% (full funding)
- C. 120% (full funding + cushion)
- D. It's more complicated than that

	Plan A	Plan B
Funded Percentage	94%	79%
Zone Status	Green Zone	Yellow Zone

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Interest Rate Assumption	7.5%	6.5%

	Plan A	Plan B
Funded Percentage	94%	79%
Zone Status	Green Zone	Yellow Zone
Interest Rate Assumption	7.5%	6.5%
Mortality Tables	RP-2000	PRI-2012
Inactive/Active Ratio	3.0	1.5
Cash Flow	-5.0%	-2.5%

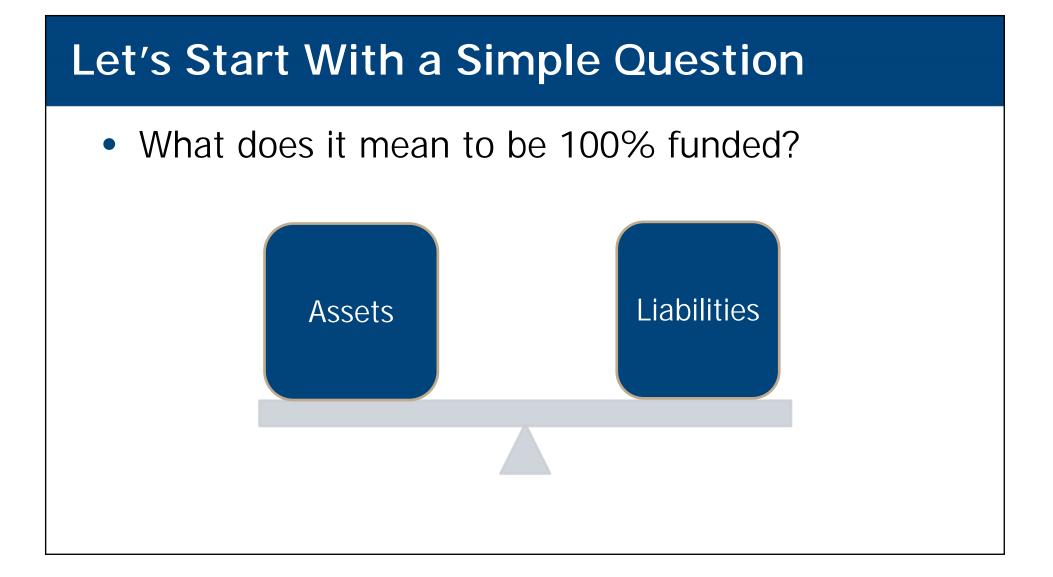




What Does It Mean to Be Well-Funded?

- Goes beyond current funded percentage
- How appropriate are the assumptions?
- How mature is the plan?
- What are the projected funding levels?
- What are the implications of NOT meeting the assumptions?

Revisiting Actuarial Assumptions



Digging a Little Deeper...

Assets

Liabilities

- Value on financials
- Volatile!



- Value of promised benefits
 - Depends on assumptions!
- Only 100% funded <u>if</u> all assumptions are met



Assumptions Are Actuary's Best Estimate

- Under ERISA Section 304(c)(3)
 - Each actuarial assumption must be reasonable
 - In combination, the assumptions must represent the actuary's best estimate of anticipated experience under the plan

Range of Reasonable Assumptions

- More conservative assumptions
 - Examples: Lower expected returns, longer life expectancy, lower future hours
 - Reduced probability of "bad surprises"
 - Increase in today's liabilities/costs
- More aggressive assumptions
 - Examples: Higher expected returns, shorter life expectancy, higher future hours
 - Increased probability of "bad surprises"
 - Increase in liabilities/costs down the road if not met

Example: Interest Rate Assumption

Hypothetical Multiemployer Plan 2024 Survey of Capital Market Assumptions

5	•	Average Survey Assumptions		
	Portfolio	10-Year	20-Year	Standard
Asset Class	Weight	Horizon	Horizon	Deviation
US Equity - Large Cap	20.0%	6.46%	6.96%	16.52%
US Equity - Small/Mid Cap	10.0%	7.07%	7.50%	20.57%
Non-US Equity - Developed	7.5%	7.08%	7.52%	18.06%
Non-US Equity - Emerging	5.0%	7.70%	8.24%	23.61%
US Corporate Bonds - Core	7.5%	4.93%	4.88%	5.90%
US Corporate Bonds - Long Duration	2.5%	5.05%	5.16%	10.98%
US Corporate Bonds - High Yield	5.0%	6.13%	6.36%	9.94%
Non-US Debt - Developed	5.0%	3.66%	3.71%	7.33%
Non-US Debt - Emerging	2.5%	6.17%	6.28%	10.76%
US Treasuries (Cash Equivalents)	5.0%	3.68%	3.43%	1.10%
TIPS (Inflation-Protected)	5.0%	4.38%	4.27%	6.10%
Real Estate	7.5%	6.06%	6.17%	16.61%
Hedge Funds	5.0%	5.90%	6.17%	8.03%
Commodities	2.5%	4.92%	4.95%	17.81%
Infrastructure	2.5%	7.26%	7.36%	16.02%
Private Equity	5.0%	9.09%	9.71%	22.57%
Private Debt	2.5%	8.32%	8.44%	12.00%
Inflation	N/A	2.42%	2.44%	1.86%
TOTAL PORTFOLIO	100.0%	Expected	returns are	geometric.

	10-Year Horizon		20-Year Horizon			
	Conservative	5	Optimistic	Conservative	-	Optimistic
Exposted Boturne	Advisor	Average	Advisor	Advisor	Average	Advisor
Expected Returns	F 000/	7.000/	0.40%	(000/	7 5 4 0 4	0 (00 (
Average Annual Return (Arithmetic)	5.83%	7.29%	8.49%	6.38%	7.56%	8.63%
Annualized Return (Geometric)	5.28%	6.73%	7.98%	5.85%	7.01%	7.99%
Annual Volatility (Standard Deviation)) 10.77%	10.98%	10.49%	10.59%	10.87%	11.74%
Range of Expected Annualized Returns						
◆ 75th Percentile	7.57%	9.07%	10.22%	7.45%	8.65%	9.76%
• 25th Percentile	2.98%	4.39%	5.75%	4.25%	5.38%	6.22%
Probabilities of Exceeding Certain Retu	rns					
7.50% per Year, Annualized	25.7%	41.2%	55.8%	24.3%	42.1%	57.4%
7.00% per Year, Annualized	30.6%	46.9%	61.7%	31.4%	50.2%	64.7%
6.50% per Year, Annualized	36.0%	52.7%	67.3%	39.2%	58.4%	71.5%
SOURCE: Horizon Actuarial 2024 Survey of Ca	apital Market As:	sumptions				

Considerations

- Arithmetic vs. Geometric returns
 - Important to focus on geometric returns

100,000,000
-50%
50,000,000
50,000,000
50%
75,000,000

Arithmetic Return = 0%

Geometric Return = -13%

Considerations

- Short-term vs. long-term— Where should we focus?
 - How mature is the plan?
 - Support ratio (active participants to inactive participants)
 - Cash flow (contributions less benefit payments and expenses)

Other Assumptions

- Remember: Review ALL assumptions
 - Work levels, future contributions, contribution rates
 - Mortality: Current and future improvements
 - Retirement, termination, disability, etc.
- Remember: The Actuary "owns" the assumptions
 - But you can ask questions!
 - Are our assumptions conservative or aggressive?
 - When was the last time you performed an experience study?
 - How did you develop the expected return assumption?

Risk Management (Staying Well-Funded)

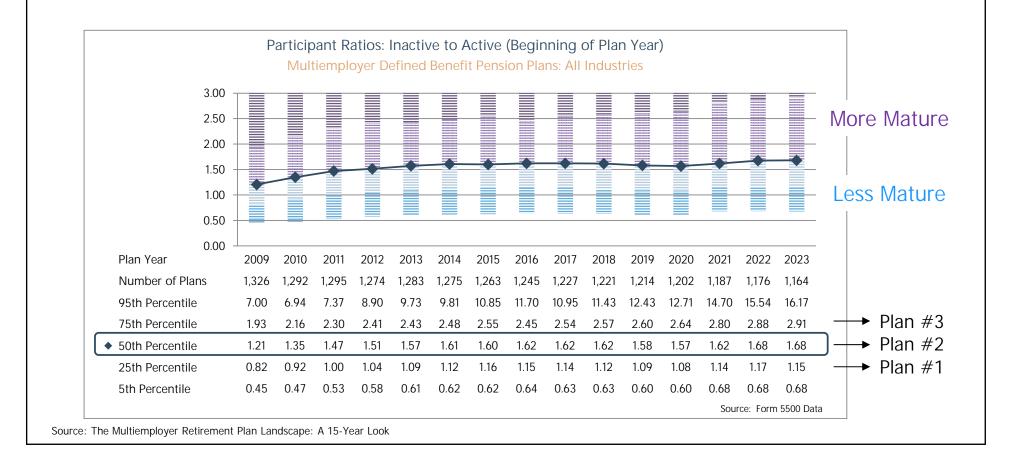
How to Stay Well-Funded

- Consider more conservative assumptions
- Monitor plan maturity measures
- Minimize asset volatility
- Minimize funded percentage volatility
- Maintain funding cushion

Why Plan Maturity Matters

	Plan #1	Plan #2	Plan #3
Assets (\$M)		\$90	
Liabilities (\$M)	\$100		
Unfunded Liability (\$M)		\$10	
15-Year Cost (\$M)		\$1	
Inactives	900		
Actives	900	600	300
Inactive/Active Ratio	1.0	1.5	3.0
Cost of Unfunded Liability	\$0.67/hour	\$1.00/hour	\$2.00/hour
	Less Mature		More Mature

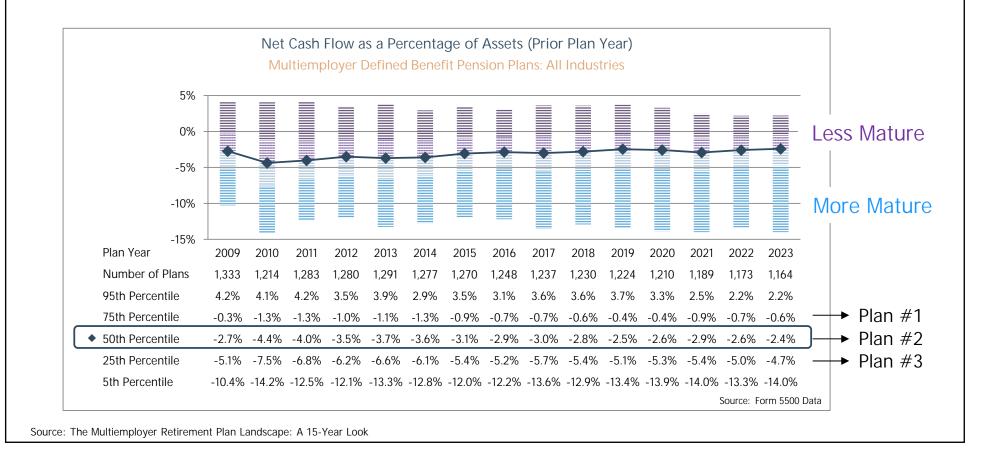
Support Ratio (Inactive to Active Ratio)



Why Plan Maturity Matters

	Plan #1	Plan #2	Plan #3
Liability (\$M)		\$100	
Assets (January 1) (\$M)	\$100		
Benefits + Expenses (\$M)		\$10	
Interest Assumption		7.0%	
Return for Year	-3.0%		
Contributions (\$M)	\$10	\$7.5	\$5
Cash Flow (% of assets)	0%	-2.5%	-5.0%
Assets (December 31) (\$M)	\$97	\$94.5	\$92
	Less Mature		More Mature

Cash Flow (Contributions Less BPs and Expenses)



What Should Our Mature Plan Do?

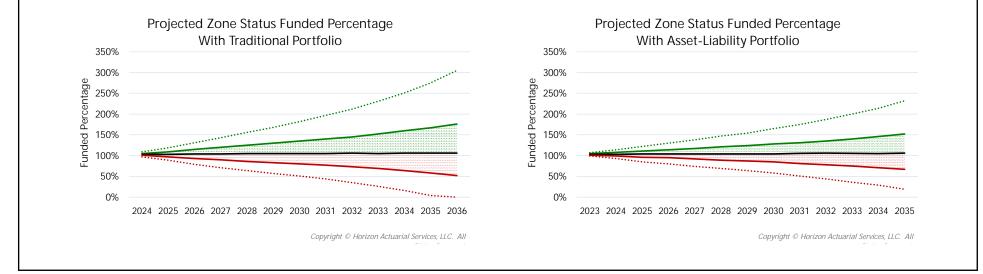
- Maintain a larger funding cushion
- Consider less volatile investment strategy
- Consider options to better align assets and liabilities
- Run stochastic projections
- Consider alternative plan designs (e.g., variable)
- Use additional caution when considering benefit improvements

For Less Mature Plans...

- Keep an eye on your maturity measures
- What are they projected to be in 5 or 10 years?
- Changes can happen quickly and unexpectedly

Matching (Some) Assets to Liabilities

- Cash-Flow Matching, Immunization, Liability Driven Investing (LDI), Pension Risk Transfer (PRT)
- Goal is to "Narrow the Cone"
- Cost of risk reduction higher when interest rates are lower



Benefit Improvements

What Benefits to Improve

Benefit accruals	Benefits, rights and features
Past service	Early retirement eligibility
Future service	Early retirement reduction factors
Past + future service	Disability eligibility
13 th check	Disability benefit amount
Ad-hoc retiree increase	Late retirement increases
Modify service schedule	Modify service schedule
Contribution rate increase	Optional form of payment factors
Backfill periods of lower accruals	Other ancillary benefits

When to Improve Benefits

- After or in conjunction with:
 - 1. Reviewing/updating assumptions
 - 2. Discussing/understanding plan maturity
 - 3. Reviewing projections (including stress testing, stochastic modeling)
 - Both before and after proposed improvement
 - 4. Reviewing investment strategy/goals
- After a bad investment year
- At a point where the plan is too well-funded?

Which Plan Should Consider Improvements?

	Plan A	Plan B
Funded Percentage (2024)	94%	79%
Projected Funded Percentage (2038)	120%	120%
Zone Status	Green Zone	Yellow Zone

Which Plan Should Consider Improvements?

Plan A	Plan B
94%	79%
120%	120%
Green Zone	Yellow Zone
7.5%	6.5%
RP-2000	PRI-2012
3.0	1.5
-5.0%	-2.5%
	94% 120% Green Zone 7.5% RP-2000 3.0

Which Plan Should Consider Improvements?



How to Improve Benefits

- Gradually
 - More likely to result in fair and equitable benefits
 - Provides inflation protection
- Thoughtfully
 - Equity and fairness
 - Workforce management (attraction and retention)
 - What do members value?
 - Optics matter!

Key Takeaways

- My plan is well-funded—Now what?
 - Make sure you are actually well-funded
 - Review actuarial assumptions
 - Review plan maturity measures
 - Review projections with stress testing
 - Implement risk reduction measures
 - Improve benefits!!
 - Gradually and thoughtfully

