Optimizing Guaranteed Lifetime Withdrawal Benefit (GLWB) Allocation in a Retirement Income Portfolio

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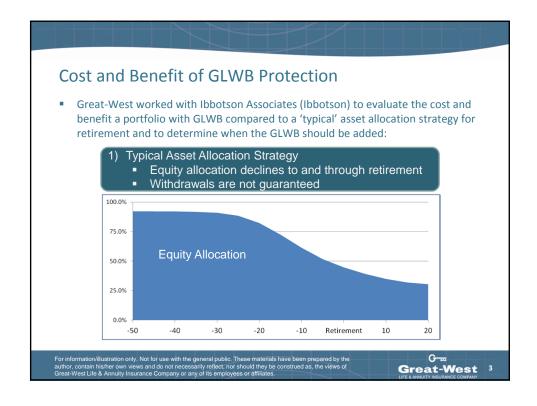
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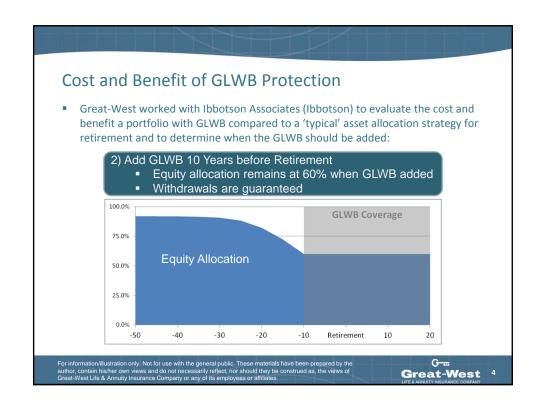
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GLWB Overview

- A Guaranteed Lifetime Withdrawal Benefit (GLWB) is used with a customer's assets to guarantee an annual income payment stream through retirement:
 - Annual income payment is typically 4% to 7% of the customer's Benefit Base
 - Benefit Base is initially set at asset value when the customer elects the GLWB and has opportunity to increase with increases in the underlying assets
- Customer benefits:
 - Customers benefit from the growth potential of equities by periodically locking in higher income
 - Customer's retirement income is protected from market declines
 - If assets decline to zero as a result of withdrawals, income is guaranteed for life of the customer
 - Customers can access their asset value at any time (any withdrawal in excess of the guaranteed annual payment will reduce future payments)

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Cost and Benefit of GLWB Protection

- The following results demonstrate how income and wealth vary with and without GLWB allocation assuming:
 - \$300,000 starting retirement savings balance at age 55
 - Annual retirement income starting at age 65
 - GLWB features:
 - Cost: 0.95%
 - Potential for annual Benefit Base increase
 - Withdrawals at 5% of Benefit Base
- Shaded boxes show preferable strategy for retiree.

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Cost and Benefit of GLWB Protection: Income

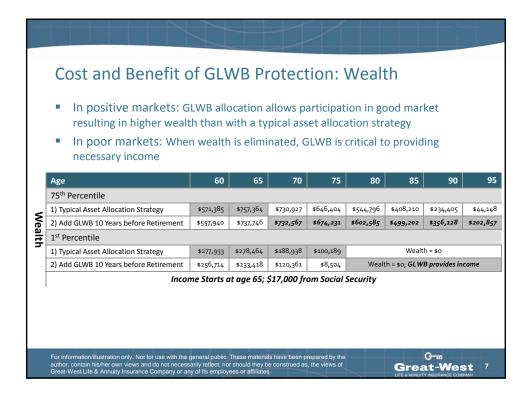
- In positive markets: GLWB solution allows participation in good market resulting in higher income than with a typical asset allocation strategy
- In poor markets: GLWB allocation is critical to maintaining consistent retirement income

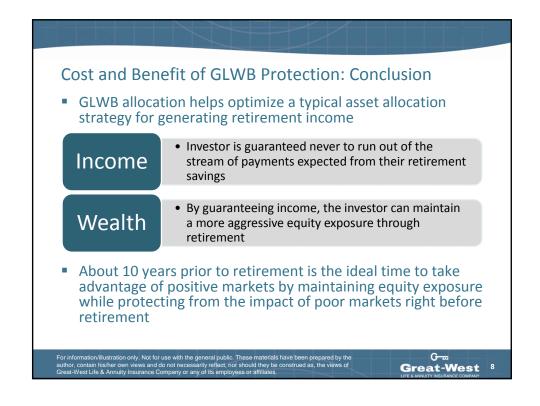
	Age	65	70	75	80	85	90	95
Income	75 th Percentile							
	1) Typical Asset Allocation Strategy	\$55,788	\$61,086	\$63,752	\$64,927	\$65,301	\$61,099	\$46,352
	2) Add GLWB 10 Years before Retirement	\$55,788	\$61,086	\$63,752	\$65,227	\$66,597	\$67,479	\$68,317
	1 st Percentile							
	1) Typical Asset Allocation Strategy	\$33,682	\$33,912	\$34,071	\$17,547	\$17,000	\$17,000	\$17,000
	2) Add GLWB 10 Years before Retirement	\$33,682	\$33,912	\$34,071	\$34,071	\$34,071	\$34,071	\$34,071
	Income Starts at age 65: \$17,000 from Social Security							

Income Starts at age 65; \$17,000 from Social Security

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Adding GLWB: How Much is Enough? **Highest GLWB Factor** Allocation If... Reason Risk Tolerance Guaranteed Income gives peace Low of mind **Expected Longevity** Long Retiree may outlive retirement saving Income Gap Guaranteed Income unnecessary Moderate if significant income from elsewhere ■Large income gap may indicate need for payout annuity (loss of liquidity) Guaranteed Income unnecessary Wealth Low to Moderate if able to draw on substantial liquid

resources for expense needs

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